

This Page Is Inserted by IFW Operations
and is not a part of the Official Record

BEST AVAILABLE IMAGES

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images may include (but are not limited to):

- BLACK BORDERS
- TEXT CUT OFF AT TOP, BOTTOM OR SIDES
- FADED TEXT
- ILLEGIBLE TEXT
- SKEWED/SLANTED IMAGES
- COLORED PHOTOS
- BLACK OR VERY BLACK AND WHITE DARK PHOTOS
- GRAY SCALE DOCUMENTS

IMAGES ARE BEST AVAILABLE COPY.

**As rescanning documents *will not* correct images,
please do not report the images to the
Image Problem Mailbox.**

<210> 479
 <211> 1297
 <212> DNA
 <213> Homo sapiens

<400> 479
 cccacgcgtc cgcccaacgc tccgcccacg cgtccgcttc tgaccccgtc ttggacttca 60
 actgggagaa tgtggagcca tttgaacagg ctccctcttc ggagcatatt ttcttctgtc 120
 acctgtagaa aagctgtatt ggattgtgag gcaatgaaaa caaatgaatt cccttctcca 180
 tgtttggact caaagactaa ggtgggttat aaggggtcaaa atgtatctat gttttgttcc 240
 cataagaaca aatcaactgca gatcacctat tcattgtttc gacgtaagac acacctggga 300
 acccaggatg gaaaagggtga acctgcgatt tttaacctaa gcatcacaga agcccatgaa 360
 tcaggccccct acaaattgcaa agcccaagtt accagctgtt caaaatacag tcgtgacttc 420
 agcttcacga ttgtcgaccc ggtgacttcc ccagtgtgta acattatggc cattcaaaaa 480
 gaaacagacc gacatataac attacattgc ctctcagtc atggctcgct gcccatcaat 540
 tacactttct ttgaaaacca tgttgccata tcaccagcta tttccaagta tgacaggagg 600
 cctgctgaat ttaacttaac caagaagaat cctggagaag aggaagagta taggtgtgaa 660
 gctaaaaaca gattgcctaa ctatgcaaca tacagtcaac ctgtcaccat gccctcaaca 720
 ggcgagagaca gctgtccttt ctgtctgaag ctactacttc cagggttatt actgttgctg 780
 gtgggtgataa tcctaattct ggcttttttg gtactgccc aatacaaaac aagaaaagct 840
 atgagaaata atgtgcccag ggaccgtgga gacacagcca tggaaagttg aatctatgca 900
 aatatccttg aaaaacaagc aaaggaggaa tctgtgcccag aagtgggatc caggccgtgt 960
 gtttccacag cccaagatga ggccaaacac tcccaggagc tacagtatgc caccctcggt 1020
 ttccaggagg tggcaccaag agagcaagaa gcctgtgatt cttataaatc tggatatgtc 1080
 tattctgaac tcaacttctg aaatttacag aaacaaacta catctcagga tggagtctca 1140
 ctctgttgcc caggctggag ttcggtggcg cgatcttggc tcacttcaat ctccatcttc 1200
 ccagttcaag cgattctcat gcctcgacct cccgagtagc tgggaattac aggtgcccg 1260
 taccacgccc agctaatttt tggattttta gtagagc 1297

<210> 480
 <211> 569
 <212> DNA
 <213> Homo sapiens

<400> 480
 tttttttttt ttgaagagag acggacaggc tctcactctg taggccaccc taggatggaa 60
 tacagtgggt tgtctatggc tcaactgcgc ctcaacctcc tgggtcaag caattctcct 120
 tcttcagcct cccaagatgc taggactaca ggtgcattgc aacatgccc gctaattggg 180
 tttttttttt tttgtagaga cagcatctcc ccagggtacc catgctgggtc caaacacctg 240
 gtctcaagaa atccttctgc tgtgacctcc caaagtgtca ggattaaaac atgaccaccc 300
 atgctcagag tccattttca tttctgattt gagtaatttt aaacttttct ctttttttct 360
 tagtcaatct agttaatggg tgtcaatttt gttgatttta ttttgaagaa tcaacttttg 420
 gtttcattaa tttcctctat tctttttcca ttctccattt tatttatgtc cactctaate 480
 cttattatct ccctcattca ctgtgcttgg gtttagtttg ttcttctttc atatcctgaa 540
 gtattaaagt aggttgttga cctgaaaaa 569

<210> 481
 <211> 1570
 <212> DNA
 <213> Homo sapiens

<400> 481
 aatagagaag gtgccagaaa gatccaaaac aagtggctgc ggccgtcgcc caggagtcac 60
 cggacgccag aatctgtgtc tccagaacgc tatagctatg gcacctccag ctcttcaaag 120
 aggacagagg gtagctgccg tcgccgtcgg cagtcaagca gttctgcaaa ttctcagcag 180
 ggtcagtggtg agacaggctc ccccccaacc aagcggcagc ggccggagtcg gggccggccc 240
 agtgggtggtg ccaaaccggcg gcggagaggg gcccagccg caccacagca gcagtcagag 300
 cccgccagac ctctctctga aggcaaagtg acctgtgaca tccggctccg ggttcagca 360
 ggtactgagc agcatgggac agccttgagc cagggcgtgg catcccgccg gcccaggcg 420
 ctggcgccgc agctggacgt gtttgggcag gccaccgcag tgctgcgctc aaggacctg 480
 ggctctgtgg tttgtgacat caagtctca gagctctcct atctggacgc ctctggggc 540
 gactacctga gtggcgccct gctgcaggcc ctgcggggcg tgttcctgac tgaggccctg 600
 cgagaggctg tgggcccggga ggctgttcgc ctgctggtca gtgtggatga ggctgactat 660
 gaggtggcc ggccgcgcct gttgctgatg gaggaggaag gggggcgccg cccgacagag 720
 gcctcctgat ccaggactgg caggattgat cccacctcca agtctccggg ccaccttctc 780
 ctgggaggac accatctct acccctagag gactgtcact ctagcatctt tgaggactgc 840
 gacaggaccg ggacagcagg ccccttgaca gccctccca caggatgtgg gctctgaggc 900
 ctaaacatt tccagctgag ttctctccc agactcctc taccaccagg tgtgcccct 960
 tagcctccg aggcgggggc tgggcctgta tctcagaagg gaggggcaca gctacacact 1020
 caccaaaggc cccctgcac attgtatctc tgatcttggg ctgtctgcac tgtcacaggt 1080
 gcacacactc gctcatgctc acactgcccc tgetgagatc ttccctgggc ctctgcctg 1140
 gcctgcttcc cagcacacac ttctttggcc taagggttc tctctcagga cctctaattt 1200
 gaccacaacc aacctgggct tcagccacat cagtgggcac tggagctggg gtgcacatgg 1260
 ggctgctca cctgcccac acatctccag ccagccaggg ccctgcccag cttcaattta 1320
 cagacctgac tctctcacc ttccccctg ctgtccagag ctgaacatag acttgcaatt 1380
 ggatgtcacc tggagtgtca catgggagtg ttatggcagc atcataccaa ggcctactgt 1440
 tgcacatggg gccaaaacca gtaaacagcc acctcttggt aaagggaatg caaaggcttt 1500
 ggggtgatg gaaaagacct ttttacaatt gataccaatt aaactgccct gggaaagggc 1560
 attaggtggg

<210> 482
 <211> 1774
 <212> DNA
 <213> Homo sapiens

<400> 482
 gctccaaata ctgcagaatt aaggatttgt cgtgtaaaca agaattgtgg aagtgtcaga 60
 ggaggagatg aaatatctt actttgtgac aaagttcaga aagatgacat agaagttcgt 120
 tttgtgttga acgattggga agcaaaaggc atcttttcac aagctgatgt acaccgtcaa 180
 gtagccattg ttttcaaaac tccaccatat tgcaaaagcta tcacagaacc cgtaacagta 240
 aaaatgcagt tgcggagacc ttctgaccag gaagttagtg aatctatgga ttttagatat 300
 ctgccagatg aaaaagatac ttacggcaat aaagcaaaga acaaaaagac aactctgctt 360
 ttccagaaac tgtgccagga tcacgtagaa acagggttcc gccatgttga ccaggatggt 420
 cttgaactcc tgacatcagg ttgatccacc acctggcct cccaaagtgc tgggattaca 480
 gttaattttc ctgagagacc aagacctggg ctctcggtt caattggaga aggaagatac 540
 ttcaaaaaag aaccaaaact gttttctcat gatgcagttg tgagagaaat gcctacaggg 600

gtttcaagtc	aagcagaatc	ctactatccc	tcacctgggc	ccatctcaag	tggattgtca	660
catcatgcct	caatggcacc	tctgccttct	tcaagctggt	catcagtggc	ccaccccacc	720
ccacgctcag	gcaatacaaa	cccactgagt	agtttttcaa	caaggacact	tccttctaata	780
tcgcaaggta	tcccaccatt	cctgagaata	cctgttggga	atgatttaaa	tgtttctaata	840
gcttgcatth	acaacaatgc	cgatgacata	gtcggaatgg	aagcgtcatc	catgccatca	900
gcagatttat	atggatattc	tgatcccaac	atgctgtcta	attgttctgt	gaatatgatg	960
acaaccagca	gtgacagcat	gggagagact	gataatccaa	gacttctgag	catgaatctt	1020
gaaaacccct	catgtaattc	agtgttagac	ccaagagact	tgagacagct	ccatcagatg	1080
tcctcttcca	gtatgtcagc	aggcgccaat	tccaatacta	ctgtttttgt	ttcacaatca	1140
gatgcatttg	agggatctga	cttcagttgt	gcagataaca	gcatgataaa	tgagtcggga	1200
ccatcaaaaca	gtactaatcc	aaacagtcac	ggttttgttc	aagatagtca	gtattcagggt	1260
attggcagta	tgcaaaatga	gcaattgagt	gactcctttc	catatgaatt	ttttcaagta	1320
taacttgcaa	gattttaaatc	cttttaaatc	ttgataccac	ctatatagat	gcagcatttt	1380
gtatttgtct	aactggggat	ataatactat	atttatactg	tatatataat	actgactgag	1440
aatataatac	tgtatttgag	aatataaaaa	acttttttca	gggaagaagc	atacaacttt	1500
ggacatagcg	aatacaaaaat	tggaagctgt	cataaaaaga	caactcagag	gccaggcgca	1560
ggggctcaca	cctgtaatcc	tagcactttg	ggaggccaag	gcgggtggat	cacttgagac	1620
cagggaattcg	agaccagcct	ggccaacatg	gtgaaacccc	gtctctacta	aaaatacaaa	1680
aattgactga	gcatgggtgt	agctgcctgt	actgtcagct	acttgggagg	ctgaggcaca	1740
ataattgttt	gaaccagga	agcagaggtt	gcag			1774

<210> 483
 <211> 3024
 <212> DNA
 <213> Homo sapiens

<400> 483						
cgacgcctgt	ccctcttaga	cttgacgctc	ggctcctctt	gcagagaccc	cccgcaggag	60
tgacgcacct	tctccccaac	agacagcggg	gaggagccgg	ggcagctctc	ccctggcggt	120
cagttccagc	ggcggcagaa	ccagcgcggc	ttctccatgg	aggacgtcag	caagaggctc	180
tctctgcccc	tggatatccg	cctgccccag	gaattcctac	agaagctaca	gatggagagc	240
ccagatctgc	ccaagccgct	cagccgcacg	tcccgcgggg	cctccctgtc	agacattggc	300
tttgggaaac	tggaaaacata	cgtgaaactg	gacaaactgg	gagagggcac	ctatgccaca	360
gtcttcaaag	ggcgcagcaa	actgacggag	aaccttgtgg	ccctgaaaga	gatccggctg	420
gagcacgagg	agggagcgcc	ctgactgcc	atccgagagg	tgtctctgct	gaagaacctg	480
aagcacgcca	atattgtgac	cctgcatgac	ctcatccaca	cagatcggtc	cctcaccctg	540
gtgtttgagt	acctggacag	tgacctgaag	cagtatctgg	accactgtgg	gaacctcatg	600
agcatgcaca	acgtcaagat	tttcatgttc	cagctgtctc	ggggcctcgc	ctactgtcac	660
caccgcaaga	tcttgcaccg	ggacctgaag	ccccgaacc	tgctcatcaa	cgagaggggg	720
gagctgaagc	tgcccgactt	tggactggcc	agggccaaagt	cagtgcacc	aaagacttac	780
tccaatgagg	tggtgacctt	gtggtacagg	ccccccgatg	tgctgctggg	atccacagag	840
tactccaccc	ccattgatat	gtggggcggt	ggctgcatcc	actacgagat	ggccacaggg	900
aggccctct	tcccgggctc	cacagtcaag	gaggagctgc	acaaaatcaa	tcgcctcctc	960
gggacccccca	cagaagagac	gtggcccggc	gtgaccgcct	tctctgagtt	ccgcacctac	1020
agcttccccct	getacctccc	gcagccgctc	atcaaccacg	cgcccagggt	ggatacggat	1080
ggcatccacc	tcttgagcag	cctgtcctgt	tatgaatcca	agagtgcac	gtcagcagag	1140
gctgcctcga	gtcactccta	cttccggtct	ctgggagagc	gtgtgcacca	gcttgaagac	1200
actgcctcca	tcttctccct	gaaggagatc	cagctccaga	aggaccagag	ctaccgaggg	1260
ttggccttcc	agcagccagg	acgaggggaag	aacaggcggc	agagcatctt	ctgagccacg	1320
cccaccttgc	tgtggccaag	ggacaagaga	tcacatggag	cacaaattcg	ggtaggatgg	1380
agcctgtgtg	gccctcggag	gactgaagaa	cgagggtctga	cagccagcct	ggaagaccgc	1440
ttggcagccc	ttctggccac	ggctgtttct	tctttgtgct	tcccgtgtgc	ctccccagta	1500
gcctcacct	gcataccaac	ccctccttta	cccacgttgg	ggctggcata	agctgcttcc	1560
ctgagaggac	atgagggggg	ggcggtcctc	gtaccctctc	ccaccctggt	gtttggggac	1620
ctgcgtggga	tgacacggga	tgacagaatc	aaggcgccag	gatgggcact	ctgccctgga	1680
tacaggctct	accctcctcc	cccaggacct	gcctagtgcc	agtttggtag	tcccccttcc	1740

tgcccccttg	gagccacac	acgtttcatc	tttttcccc	ctgagagcaa	gaagagacat	1800
ggcatgttct	ctgggaccct	ggaatcctag	gtaccacat	gtgtgccaaa	gcctacccca	1860
cctggcaggt	gtcccacagc	aacagaagga	atagtagtcc	ccactctttc	catcagccct	1920
accctaccc	cattccccga	cacctctggt	cttgaaccat	ggctgagcag	tgccggcata	1980
cgctttgccg	gcatgcttgg	atgccagct	gtgtccagag	gtggcctggg	accgccagtt	2040
gcacgcctgc	cacctcagcc	agcccccgcc	cagctcatca	gtctgaatgg	agttgcctta	2100
aattggcagg	tggtagcgta	ctcactgccc	ttggagctgt	gaccggctcc	tgctgtcca	2160
ccccttccc	aggtggctcc	tgcttacctt	atcatcccag	ggctctgatt	agccaggcct	2220
ggtcaggggc	ctggggacgg	caccagata	tgagagtc	ccctgacact	ggtgccgggc	2280
tgacctcagc	tcccgaaggc	tcgcacagcc	tccccatcct	tccttcccag	cccttgtggc	2340
tctgtccacc	tgatcccaat	accagcttcc	cccagccct	gccaccccag	agggcgcca	2400
cgacagggag	aggtgtagat	gccaccatct	gagggagagg	aacgtggaac	aggagcaggc	2460
tctgatgctg	agaggcttgc	ctccgggggc	tggagcctg	ggtggccggg	gcccctgaag	2520
aaggctcccc	tctgtatccc	ccaggtctcc	tcaacactgg	gctgatcctg	aatggcacag	2580
gccaaagggga	ggccagcctc	gcctttctac	ccaggccccc	tgccctgcc	acctcaggcc	2640
cccacccctcc	actcctcccc	acggtactgt	gaacgtcgtg	tgactcagtg	cagagacaga	2700
taataatatt	aattcatgta	caaaaaaaaa	aaaaaggggg	gcccttttaa	aagaaccctt	2760
ggggggccca	aatttaaccc	gggctggcaa	ggtaaaattt	ttttccttat	ggggggccga	2820
ataaaaaacca	acttgggaat	tttgggaaag	aacctttttt	ttgggggggg	gacaaatttg	2880
cccaacctcc	ctccaaaaat	taaaggcttt	agggaaaaaa	aaaattttta	aggggaaaag	2940
ggggaaaaaac	aacctccata	tcctggcggt	tgaagggttt	tctttccggg	gtttatttta	3000
aaaaaatttt	ttccccgggg	cctg				3024

<210> 484
 <211> 1148
 <212> DNA
 <213> Homo sapiens

<400> 484						
aagctgaagg	tccttgcaag	accttatctc	tcctgtcctt	tatagcatcc	cgccatccag	60
agcactgcca	ggaacctgca	tggtagcgga	atgactccca	gcagtgcgca	ggtgattggg	120
ccttgggacc	agagtgaggc	tgagataaag	gggagcccag	ggccagaccc	ctgtcaccca	180
cattcctgtc	cccttccctt	tccagccagc	ccagagacca	cagcagcaca	agaggtggcc	240
agcttaaaaa	agttaattg	ctgaaaacat	ccaaggcagg	tgcgggccag	tccttgcggg	300
gtcacacccc	cccttattgg	accatcagct	ctgtgatgcc	cccttctcct	ggctacaaac	360
ctgggaagta	gggcagctgg	tcccaggggc	ctgagactgg	tgctgctcta	gaaggcctgg	420
tggggggcca	gcccccaagg	cccttgacca	gaactggaac	agcaggcaag	atggggcagc	480
gtggggtgac	caaagatcct	ggatgaggcc	aatccaggct	gggaccagcc	caggtcagca	540
gtgagaccag	gggagacagg	gtgccagggg	cctggccagg	gacatgctgc	tgaccccccg	600
ccaccctgca	cccctggcca	catgctagcg	ggcagctgat	gagcagcagc	tgaccccaga	660
gacagcagag	gtgaaaacag	tccctgggaa	ctgccagagg	cccagaggat	gtggaagtgc	720
ccacgggaag	gcaggagtgc	aggggtgaca	tgtgccgggg	ccagagagg	atcttccagc	780
ttgaggatga	gccgtgagg	gtgcactagg	aagtggcagc	acaggtgagg	tggagggtgac	840
ggggggcgag	gctagtccca	ctcgtcctcg	tccacgcctt	caaaggagtc	ctgggggagt	900
gggtcctccc	ggttccccag	ttttgccacc	atggcattca	gcagtcctc	cttcttttgc	960
tggtcagact	tttcttcag	gtactgcgct	gaggtgggg	cccgcagcgc	aggggctcct	1020
cggggggcct	ggctcactgg	gtcatgtca	ggaggctgca	ggctgagaag	ccagggtctgc	1080
ccattagcgc	cttgccagcca	ggcctcgcca	ctgagcacag	gctcccagat	cacagccgtg	1140
tctgggaa						1148

<210> 485
 <211> 1256

<212> DNA
<213> Homo sapiens

<400> 485

tttttttttga	aatgaaatga	atcattttaat	gagaatcttc	aaactgtggc	actggctgag	60
tactaagcaa	atccagggga	agacgtgaag	cccaccaagg	cgcacagcct	caactccggg	120
gcctgcccct	gatctgaaat	acaacatcca	agagctcgag	gcctttttac	cacccttttg	180
tgagcacct	gcacctttct	gacaacaact	ctcaagccaa	ctttcagaga	gaaaacatga	240
agggaaaaaa	tagatttctt	ttggccagac	agctctttct	tcctcaataa	ataggaacca	300
cacttggaac	aaagagacag	cgtgagctcg	gtgggggaag	cacaagcttt	attggctgaa	360
agttcttctc	aggagcctgg	tctgctggga	ctgcatgttc	ctggatgggc	tccccaggc	420
ctaagctcca	ggtttctctt	ggccttccga	aggattttgt	gggttacgac	caattgatca	480
aagatgactt	tttcttggcg	cttgctcagc	tgcaaaagct	tcattggtgtt	ttgcaacttc	540
ttttcttgtt	caaacaattt	tttatgtagt	ttggtgacct	ctgccttcat	ttctccaatc	600
tgctcacagt	gaagggggca	ctggccatcc	tcggggagtg	agactctcca	gagaagcttc	660
agccgcctgt	aggcctcttc	cagggtcagc	ttggccgtgc	tcacactgct	cacaaacttg	720
ctcagtgggtg	ctgggtgtgg	accctttgtt	cccagctctt	gacttgtgga	gctgggagcc	780
tcttggtgtt	gaatgtccat	ttcagcaagg	agcctctgtc	cctggctgat	ctgtttgagc	840
agggcctcat	agtctccaat	caggcccagg	acatggcggc	cattcttgtc	ggcccacagg	900
tggtggccag	tgaccaggcg	ggacacacac	ggagtgtctg	ttgccgaact	gccactgtcg	960
caggagaggg	agtcctgtgc	attcccagag	agtggaggag	tctctgaaac	tgtaaaatga	1020
gaagtaggat	gtaaaatctg	tttcaggtaa	cactctgcgt	tcaagacgct	tatgatgttg	1080
aaagctagcta	ggagggtctg	aagaggccct	cgtgcccaaa	tgccacccaa	cacaagccca	1140
gaggggaaaa	gaggcacgct	cctggacctc	tgtatattac	cccacactgg	gcttatgagt	1200
catctttag	gagaggctca	agtcaactca	accaacactt	atcaaccacc	cactcg	1256

<210> 486
<211> 2547
<212> DNA
<213> Homo sapiens

<400> 486

tttttttttt	ttatatatat	atatatatatt	atttattttt	aaaaactcca	ggggatgtcc	60
caaagttagt	aaacagttct	gtttcttgtc	ccttttatgg	ctgcatgcag	tttcaattgt	120
tcagtacaac	agatgaggca	tttaaaaggt	ctccaacgtc	aagaaacact	aactcatctc	180
tgccatatca	tattttttta	ggcagaagta	ttttctgtaa	tggttactac	cggagggtgtt	240
tactgggtta	attttttaggt	taaccaggaa	ccacacatcc	cataggataa	ttccatttaa	300
ctgaggttta	tatccgtaag	agcattacca	tagaaaaatt	tcccttttagc	aatttcaaga	360
gacctcagcc	accaatatac	ctaccttctt	tacaatataa	agtgaaatat	tacttttagat	420
gaaaattttt	tgtatcttac	ttagaaaaaa	ttaagttgat	attttaaaga	attttgattt	480
ttaatcacct	tccacaacga	tttgatatac	cttaaaactcc	actttcattt	tttataagag	540
aatcactttc	aagggaaaaa	aatggatgtt	actatatttt	aaaatctgct	ttataaaaaa	600
gtgtataaat	gtcaatctgc	cagatatact	tcctatcccc	aacacagctg	taacactgac	660
taatggggtc	atgaccatga	agcaaatttt	acttcctaaa	tagaaatgtg	taggtggcag	720
aaagcgtatt	tttcagcagg	agtgattctg	ttggatctct	ttacaatgtc	agagcagttg	780
ttagaaatgt	tagtatttta	ttcggtttct	tgtgtgaag	gattatcaca	atgttgaagt	840
gatggctgtt	caccagctcg	tcacaccgt	catcatctca	atcttgggaa	tcacagcag	900
tgtcccccac	acagagagac	aggatatagt	gtgcagttta	gtgacaggga	atccagctctt	960
agatcctgtt	tatatcacat	ttttgtgaat	ttacacaaaa	ttccatttat	agctttaaaa	1020
ctgtactaca	taacacatta	ctatactact	acaaaatata	cttctctata	aatgcactga	1080
atattttctt	gggcattttta	ttaggccttt	tttagcata	ttacaaatgc	taacaacaag	1140
atacttcaaa	ccaccaaaata	ttaaagtcagc	ttcttaattt	tctgaaattt	agttatttga	1200

```

gttaataaga attctgtagg aatactgacc catctctttt catccaacct tcaaaatagt 1260
taagcctatt tgcccatctc acctaaccct caaaatagtt aaaacaaaaa caaacccaaa 1320
ctagctatat ataacaagaa tctttcaatt cccaaactat tgaaagacct taagtcagcc 1380
aatctatgaa attatacaag atgaagggtga aaaagctgtg ctttttttta aaccattaaa 1440
cccagttctt ttctcttaaa gttgtaagaa aatggaaaat ctgtttttta atcatgcaaa 1500
gatttaaata agcatttttc tatctgctct aagaaactgt ttcttatctt acaattttta 1560
atattcataa cactcaaact acttttttgt ggccatttat gtttttgaca ctagattgta 1620
tggtattatt tagccaagat gtattataat gctaaattat gtataaaata tgatttctgg 1680
aatttgtoaa tcttctattg aagtgccatt attattgcca ggggaactaa aaaagaaaaa 1740
aacagtcttg cttgcagcag gtgtctcatg cactactttt tcaatcctt ttgtgccata 1800
gtgggaatct ggacctttga gtgttgaca tgctgtgtag cacacattgg gcaggatctc 1860
tatgggttcc ttgaacatga cctgaatgt gttagctgtc ccatcacaac taaagccggg 1920
atcattctgt cccagggttt gctttttctc atattcaatg atctgtatat tcaacttgata 1980
atctgtaggg ccatgaatag atccatacaa gccaaatcca actatagaga tccttctatt 2040
aactgtgaat ctgattcgat cactcgtccc actgtaacct cagcggcttt ctacttgctg 2100
gaatctattg atgcagcatt cctttccctt gagacagcat cttggctcgg caatgtattc 2160
aactcggggg ttagggttga cagtaaaatg aagaagaggg ttaccactt cagcatctga 2220
caaaattcca gattgagcag gacctgctgc aaattcctca attgtcatca gtgggaaccg 2280
gattaaggaa agtgcctttc ctagaacttt ttgtttatc ccaaaagtca caggtaattg 2340
ttgtctctga cattctgctt ctgccagcg tacaacagct ccaaaaagtc gactttctcg 2400
aatactgagt gtgtctctct ctaaaactgc acagagtgt tctataggca aaatacaaaa 2460
taaaccctaa tagaaatatt ttagctctct aaccaagcaa taccaacaga cacacttata 2520
ttaagttttc agatctcaac aaaaaat 2547

```

<210> 487

<211> 1228

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(1228)

<223> n = a,t,c or g

<400> 487

```

tgccggccgt gttaccacct cagacactgg tetaagtcca gggcagcctg ggatccctac 60
tcctcttgac cccaaaggcc agcaacgtgg gctgacacc cccccgggg catctttgga 120
ggggtcctgc atccagcagg gatgtggtca tctctgtcct ctcagggcct gggagccagc 180
gggtctgtgc gagtgttagg gtggcttcc tctctccttc cttagcaggg agtggccac 240
agccaaggcg ccccccgtga caaacctcac gaagtgttc cgggccagcg gccccatggc 300
gtacaggccc tcctggcggg tgccttggtg ggtgaagggg tccacgtcaa tggggttcct 360
cttggcgctc agcggctggt caggatccac tgcaaagtca gcccctgcc caggcaggaa 420
ggagaggctg ggtggggagc cgtgaggac cagcaccagg gagaccccaa acaccttctc 480
gacaccctcg aggtcctgga acacggcctg gcagtcttc ttgaagcaca gcagctggtg 540
cctggggagg ctgcggtaac cctcataggg gctgggcgac aggatggact gctcccgcac 600
catctgggtc acctgtggt actcggggt cagcatcttg ggcagctggt tgaacaccag 660
gccagggtcg tccacggccc ggcgggaagg atggtacc cggatgtgt agtggcgggc 720
gtagaggacc gcgtcggccg ctgacagccc cgcgccaatg atgaggacag ggtctgaggc 780
cggggtcacc gcaccacccc ttgtggcggc ctccagggca gacagctcat ggtggatgaa 840
gggcaggggc tccccgggga tgcccagccg ggcggggctg tcgaacgtgc ctgtggcgag 900
gaccacgttg cggggcccaca gcgagaaggg ctgctgggcc tggttccttg tcagggaaggc 960
gctcacctgg aagagggggc tggagtcttg ggcgccacag ctgctgggat cgggggtccc 1020
cactccacg gctgtgacta cagcaccgga ccaaaagtta tgcccagac cctcttgac 1080
cagctagtc ctgtagtagt gggcagtg cccggcagtg gccggctgt tgcgaagacc 1140
tcttcgttc ttctgcatcc agtccttgac ctccgaattc caccacactg actagaggtc 1200
tacagtgggn ntcaggncng gacccct 1228

```

<210> 488
 <211> 1410
 <212> DNA
 <213> Homo sapiens

<220> .
 <221> misc_feature
 <222> (1)...(1410)
 <223> n = a,t,c or g

<400> 488

tttttttttt	ttactttttac	ataatctcat	ttaatttaac	cctcacaaca	accctgtgag	60
gtaggtat	gtccatttt	acaaatggag	aatcgaggc	acaaaagatt	aaacatctta	120
caaagtctg	cacagccact	tatatgctgg	agctagaatt	tgaaccagg	tgtgcctcca	180
ctttttaata	ctagaccaat	cttttcacgg	gggaagtttc	ctagattaac	accctcacat	240
cttttaagac	cattccaaaa	cctgcgttct	gttttcgaga	agccctcact	gtgtttctgc	300
tgccctgaaa	cagtggaggc	agacaaagg	gagtgccaag	tgaggaacca	taagaagtgg	360
tagatctctg	tggagtgcc	taagaacct	caagagcct	aacaaaggta	gttgggggag	420
aggggaagag	gtgtttcagc	agctctgctc	ccagcagcca	tttcctctct	ccagggcaaa	480
gggggtggggc	tcgagggcc	gctgaccaag	aaaccctcc	agctcctcca	gtccaagtcc	540
agcatctttc	ctacaactat	tctgccttcc	acttcgtctt	cttccttgcc	tactctatg	600
tcattggttac	ccttaccac	tgggtcagg	aagatggagt	gggccttaga	tactctcctg	660
aagagcttagc	tattttaagg	aaagagcaat	tcaaggccat	tccagacaca	catgggtctg	720
ccattatatt	tggtgaggag	gtagaacagg	tctaaaaagt	aaggcccttc	atattctcta	780
accagagcct	ttggttacac	agctatgagg	gagcagaact	ggaaaagacc	ttcatcaagg	840
gtagctgggc	cacctctctg	gtcaagggtg	cctcatgctg	ggcctgcgta	ctcctctatc	900
tggggctgtt	actggcacca	ctctgttggc	ccccaccaca	gaaacccag	ccccttatct	960
tgaggcgccg	ccgccaccgc	atcatatccc	cagataacaa	atatcctcca	gtctaagtcc	1020
ttttcacaaa	ctgggggttcc	cctgacattg	tactcctaga	gttggtcaa	ggggagctgt	1080
ccagcccagc	tcaatacctc	aaggacacac	aggagttat	ctccgtttgg	gctgaagtca	1140
atactatgaa	ctggaagaag	tgggtcaaaa	cagtctaatt	tgctgggcag	agtgtctgac	1200
tactggagc	tactgttaca	tctgcatccc	agctcaagag	cctaacaccc	aaatcagcag	1260
ctcaaagaac	caccgctgat	cccagcagac	agtgtgcacc	agccctttcc	tggctcttgg	1320
gcttcttata	tccgtgtnc	agggctgaac	tccttatttt	cctttctcca	naggcagagc	1380
cgagtcttca	gtccctgttg	gtctttcccc				1410

<210> 489
 <211> 1050
 <212> DNA
 <213> Homo sapiens

<400> 489

caattgatac	acctatcaca	tggataccag	attcactgga	ctgactatta	caacgtcggg	60
actgggagac	cagaattcgg	cacgagggca	gccacaaagt	ccctggccgg	agcagagctg	120
aagacgctca	aggactttgt	gactgtcttg	gccaaagtgt	tccctggacg	gccgccagtc	180
aagaagctgt	tggagatgct	gcaggagtgg	ctggccagcc	ttccctgga	caggatcccc	240
tacaacgccg	tgcttgacct	ggtcaacaac	aagatgcgga	tttctggaat	attccttact	300

aatcacataa	agtgggttgg	atgtcaagga	agccgatctg	agttgagggg	ttacccgtgt	360
tctctctgga	aactgttcca	cactttgact	gttgaagcct	cgaccacccc	agatgcactg	420
gttggcacag	gctttgaaga	cgacccccag	gctgtgctgc	agacaatgag	gaggtagctt	480
cacaccttct	ttgggtgtaa	ggaatgtggt	gagcactttg	aggaaatggc	taaagaatcc	540
atggactcgg	tgaaaacccc	agaccaagcc	atcctctggc	tgtggaagaa	gcataatatg	600
gtgaacggcc	gcctggcagg	tgagaagccc	ctgggcatgg	ggggctcagc	acgggctggg	660
ggaggccctg	gtcctgggac	agcaaggacg	gcacggctgc	cgtggggctt	gtccctgagc	720
tttgccggct	cgtgccaccc	actgtgctga	cgggatcagg	acttgggtgg	ctgagagctg	780
ccagagctgc	agcctttccc	aggctgcttc	tgtccccggc	tttctagatg	cttctctcac	840
tccgggggct	cttcgacccc	gtggaaatgg	gtgtggctct	ttcttcccc	atcgggtacc	900
actggtagcc	cgttagactc	tgaagatgtt	tttgactctg	gaaagcttgg	aacgtaatta	960
atttttgatg	aggaatttta	gtagtatgga	aatctgttgt	ccaaacgtaa	accaaacttc	1020
tcaaagtgtc	ttgttttgtt	aaaaaaaaaa				1050

<210> 490

<211> 4797

<212> DNA

<213> Homo sapiens

<400> 490

tttttttttt	ttaaagttaa	aacacctttt	atltgaagaa	atattgcttc	tagactttcc	60
tgaagccaga	attgttctat	aaaagtatca	tggaaatatta	tacatgatta	aaaaacagag	120
tatgcttctc	aataaactga	aatcttttta	caaagcacat	tattcatgat	cataaatatg	180
tttgttctgt	catcccaccc	atgatacaca	catcaggcaa	gcagctaatt	tgaacatatg	240
tacagagtct	atgataaaga	tttaaaagta	ccaaaaagat	tcagctataa	catattaaat	300
tttctttaaa	agagttttacc	ataaacactt	aaagaaaaca	taattttatc	aagcacttga	360
attatctaaa	aataagaaga	aaacctctct	tagggtaagc	aaaaacacat	catcttgggg	420
agctgaataa	aagggtactg	atgactcagt	gaggtaatcc	ctttagctgg	tatttataaa	480
cctaatacac	aacaaggata	ttttcaagaa	tacagatttt	caaaagcaat	tttgaactat	540
gtcttttaaa	gatatcagaa	cttgggtgaag	gtcttacaaa	taatcataga	acacaatgtt	600
aagaaattaa	cttctcttgt	ggtatgttga	aattgtggag	cattcatgat	tttcttttat	660
tgagaagtct	ttgggtgtaa	ttcaaaacta	gtcatatttt	atcaacattt	aagcttctta	720
gtcatgccaa	gaaaaacaaa	aaagatgaaa	ataaaagatc	tttagatctt	tttctcctgt	780
caagaaaata	acccaaaata	tagcaatctt	aaaggtatga	tgtatgatga	acgctttgag	840
gctaggcaca	gagagagcag	gcaatcttca	ttttgtttac	ttattttatt	attttcacca	900
ccaacattat	tagccatgcc	tttctgctaa	tcgatttttag	caagtccagg	taaaacacat	960
gcaacatttt	ctggcaaaaag	cttaatgtca	aacaatatgt	gatccatact	gtgtgtcgtc	1020
cttggggggt	tatttgactt	tgtcacaatg	acagccaaca	gtgagactga	taagcctgtc	1080
aaaaataaaa	ataaagacta	atcaaataga	catggcattt	taatctcaaa	gtgcaaaatc	1140
atctaactga	aaatgacggc	attgaaaaat	tccagtgggt	aaaaatgaat	caaaacttca	1200
ttacgcaggc	agtggaagtg	tgttgaaaga	tttaccaggg	gtgtcaagtt	ttagacactc	1260
agaaaggcac	cattctagcc	atcttgattg	gataacatgt	atatacttat	gtccctacga	1320
tattcaaaaag	ataaactagt	tttagtacaa	aacaaacaaa	caagcaaaaa	atcaaaaacca	1380
agccaaccca	aatatcccca	gcctttcttt	ctactcttgg	cagatagtaa	attataacga	1440
tgagtctccg	tgtgcacacc	gcttgctcac	atgctcacta	gcttctactg	cacaaaggta	1500
cccagggtag	cttggaaatgt	tggtyggctgt	gattaccttt	attagtttac	aaataaaaaa	1560
gttaaaaaga	aatactgtgt	ttagggtaaag	gtaacagttt	ccacctaata	aagaggagag	1620
tgaagagga	agcgtgcctt	tcctaggtgc	tgtgacttct	ccttttctgt	attcttctcc	1680
accttgggtc	acatcttccc	cgctatgctg	gaattacttc	ggtgttctgc	ggtggccatg	1740
gtgaacatct	gatgaactga	aattccatcg	gaatgcacag	gaagatatag	ttgatcttca	1800
aaaatgtcct	ttccaggacc	accatactgg	ggaagtctct	tcgggtgcct	gcgaatgggc	1860
tgcagcctgg	ggctggggccc	gagctctagc	tctgtcatgc	catcgccact	gaaatcgggt	1920
tccagatgat	tagtctcttc	atgccccgtc	catttttccg	tttttctcca	gtgttcagaa	1980
ttcaaatgat	taacttctgg	aatgtcgtaa	ttccattcaa	gtttactctc	tggacttaac	2040
gttggctcgt	tcaaatgcag	ggtttgaagg	tcagctggca	aggtcaaatg	aggtgttttc	2100
ccaaccttat	gccttggggtc	ttcatctgag	tcagcagagg	ccatctccat	tgacacagcg	2160

```
<210> 491
<211> 2480
<212> DNA
<213> Homo sapiens
```

259

gccctggggg	ctgtggggcc	atggtagggc	ccttggcagt	cttgggaggt	gccaaggctg	360
ggtctggaca	ggaggaggca	acctcaggcc	cctggggccc	atctcaggct	ccagcaggtc	420
ctgccagtcc	taggatcccc	aacttgggtg	cctgtgagcc	ccctcccat	ggagagagca	480
gtgatgtcat	ctccccagc	tggtgggagg	aggggggttc	tcatatgggg	ggtctgcagg	540
gttgagctga	gtgaagcctc	cccagcttcc	actgaccacc	ccccacttg	ggtgagggtc	600
acagagcctg	gtgctacctc	ccaccctgac	tgggcactgc	tcttgctgcc	agtaagcatc	660
cctaggacca	ggccctgccc	tttttcttgg	cttggggttt	tggaaatgtcg	aagttcatgc	720
ccagccattc	cctctgcttt	agagataggg	cgggctcctg	tcgaggcccc	tgcagggccc	780
tgggactcgg	cggggggcac	ctcagggtcg	ccactgcagc	ctggctctgcc	atgcgtggtc	840
tggggggcgg	tctgtggttg	ctgacctctg	gccggggagt	ggggagacag	gcttggaggg	900
agccctgccc	caggacgaag	ctggaggggg	ggagcatgcc	tgtcacacgg	ccatcccaag	960
accagctctg	gggggacaga	acatggccct	gtccttgggt	gccccaaagag	gcggctcaga	1020
gacacctttg	gggagggtga	gggagacagc	agggtttcac	atattggcagg	gcagggcaga	1080
acgggaaggg	cttggggggag	aggatgcggg	agtctgacag	caccaggctcg	gggccgacat	1140
gccgaaggcc	ccgtccggcc	tgcggcaggg	gcagaaggga	ggaagctgag	ggccatgggg	1200
gccagcccg	gatggaagca	cgccctccca	ccacgggcag	cttggcctga	gcctgtcgcc	1260
ctgggtcggg	gaggccgtgg	ggctgcatgc	ccagtgcctg	tctcggcaa	tggcctcggg	1320
aggactgtgg	tgtgactgtg	agaccggcgt	ccaggagtgg	gggcagggtg	ggcctggcgg	1380
tgggcacagg	gccttagctc	gcaccaggct	ggcactgctg	ctggggctcg	ggcgggccc	1440
ctgccccctg	ctccggggccc	cccggcgagg	tccaccgct	gctcgtccat	gcgcttagcc	1500
tgcacctctc	gaatgaggct	gaagaagtc	tctcgggca	tggtaggggc	ccggggcagt	1560
acgtcagggt	gtgggcagcg	ctggtcatcg	atcctggagg	actggtactt	gatgagcatg	1620
ttgaagaagt	cgtcccccg	ctcctggggc	tgcctgtggc	ctcggagggt	ccctgcattg	1680
ctgtgggtga	ttcgcagccc	cggcaggctg	cccacgctgg	cccgtggtc	gtccagccgg	1740
cggctctggg	agctggcgat	gaggtcgaag	aattcctcgg	tctggggcga	ggccgtcatc	1800
gagggtctgg	cgatcctgtc	ctccagggtg	ggggcgccg	tggcctcggc	agccccggcc	1860
tggccatcgt	ccaggggaca	acgtgtgtcg	tccatgcggc	tgtcttgga	cttgggtcaac	1920
agggtcaaaga	agcactcctc	gtccgaagac	ggggccctcg	ggatgctcgt	gcgtggcacg	1980
tgcaccggga	cgtcggcgct	gtccagcggt	gagtggctgc	cctcccgggg	cctcctctca	2040
gcgtccgggc	cttccctggta	cttccctgtc	ctcacgggga	ggggtagcga	gtccctgctg	2100
ggcccccgcc	agtccctga	atggtggctg	tctccattct	gtcccgctc	cagggggagt	2160
ctcagcaggt	cccaggctc	cgcgtcagc	ctctgcgtcc	tcttgggtct	ggccccctgg	2220
gcctcatagc	cggccagggt	aggcttctct	gaggctgccg	ggctgggtcag	gcggccgagc	2280
accagctgca	gctgcgccac	gttcatgcgg	gccgtgagct	ccccatggcg	gtccccgatc	2340
tcttgggaga	tctgcagggt	cttcttggcg	aaggtaaggg	cctgcgctgg	gcgccccatg	2400
gacacgtagg	catttcccag	gctccagcac	gcccggccct	cgccactct	gtcggccagc	2460
tcttgggcaa	tgagcagggt					2480

<210> 492
 <211> 738
 <212> DNA
 <213> Homo sapiens

<400> 492						
ggaattcggc	ggccgacctg	gccatctttg	ccctttgggg	gctcaagccc	gtgggtctacc	60
tgttgccag	ctccttccctg	ggcctggggc	tgcaccccat	ctcggggccac	ttcgtggccg	120
agcactacat	gttcctcaag	ggccacgaga	cctactccta	ctatgggcct	ctcaactgga	180
tcaccttcaa	tgtgggctac	cacgtggagc	accacgactt	ccccagcatc	ccgggctaca	240
acctgccgct	ggtgcggaag	atcgccggcg	agtactacga	ccacctgccg	cagcaccact	300
cctgggtgaa	ggtgctctgg	gattttgtgt	ttgaggactc	cctggggccc	tatgccaggg	360
tgaagcgggt	gtacaggctg	gcaaaagatg	gtcgtgtgagc	ccgggctgcc	tcctggtgggt	420
ggccattgtc	ccccatcggc	ccctcagcct	tgcaccccag	cactgagaag	ctacatttcc	480
ttcctgtgct	ctggactgct	gcccttgtcc	ccgaggagtg	tcccgcgcag	ccacacctgg	540
caacagcagt	gtgggctgca	gggctccgtc	tgcacgtgga	cttgccctgg	accttgagtg	600
tggccctccc	tttctggggc	tccccagggtg	aggcctggcc	ctgccccacc	atgacctggg	660
tgtctgagc	ccacgggttc	cacggagctg	acttctccgg	ggtgcctgtg	ccctacatta	720

aaccggcggt ttgtttca

738

<210> 493
 <211> 574
 <212> DNA
 <213> Homo sapiens

<400> 493
 caagaaagcg gcttcagctg taaaggacct ggccagaatg tggctgtgac cagggcacac 60
 cctgactccc aagggaggcg gggcgccct gagcgggggg cccgaggagg ccagggtgtt 120
 tacaacagcg agtatgggga gctgtcggag ccaagcgagg aggaccactg ctccccgtct 180
 gccgcgctga ctttcttcac agacaacagc tactaagcag catcggacaa gacccccagc 240
 acttgggggt tcaggcccg gaggcgggc agagggtctg aggcccaggc tgggaactca 300
 tctgggtgaa ctctgggtggc acaggagtgt cctcttccct ctctgcagac ttcccagcta 360
 ggaagagcag gactccaggc ccaaggctcc cggaattccg tcaccacgac tggccagggc 420
 cacgctccag ctgccccggc ccctccccct gagattcaga tagaatgtga cctctaggca 480
 tgatttgcta ggggtgggag cagcatcttt ctgtcaccat tgtgtgaaca gcagggtcag 540
 atgttcctag tgatatcacg ggaagccttg tttc 574

<210> 494
 <211> 1179
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(1179)
 <223> n = a,t,c or g

<400> 494
 acgtaattgt gcatgcgagg cccatccgca cgcgggctag caagtactac atccccgagg 60
 ccgtgtacgg cctgccccgc tatccggcct acgcggggcg cgggtggcttt gtgctttccg 120
 gggccacgct gcaccgcctg gctggcgccct gtgcgcaggc cgagctcttc cccatcgacg 180
 acgtctttct gggcatgtgt ctgcagcgcc tgcggctcac gcccgagcct caccctgcct 240
 tccgcacctt tggcatcccc cagcctteag ccgcgcgcga tttgagcacc ttcgaccctt 300
 gcttttacgg tgagctgggt gtagtgcacg ggctctcggc cgctgacatc tggcttatgt 360
 ggcgcctcgt gcacgggcg catgggcag cctgtgcgca tccacagcct gtcgctgcag 420
 gcccttccca atgggactcc tagctcccca ctacagcccc aagctccctaa ctacagacca 480
 gaatggagcc ggtttccag attattgcg tgtatgtggt tcttccctga tcaccagggtg 540
 cctgtctcca caggatccca ggggatgggg gttaaagctt gctcctggcg gtccaccctg 600
 ctggaaccag ttgaaaccg tgtaatggtg accctttgag cgagccaagg ctgggtggtg 660
 gatgaccatc tcttgtccaa caggctccag agcagtggat atgtctgggt ctcctagtag 720
 cacagagggt tgttctgggt tgggtggcagg gacttaggga atcctaccac tctgctggat 780
 ttggaacccc ctaggctgac gcggacgtat gcagaggctc tcaaggccag gccccacagg 840
 gagggtggag ggtcccgcc gccacagcct gaattcatga acctggcagg cactttgcc 900
 tagctcatct gaaaacagat attatgcttc ccacaacctc tcctgggccc aggtgtggct 960
 gagcaccagg gatggagcca cacataaggg acaaatgagt gcacggctct acctagtctt 1020
 ttctcacct tctgaactt cagacaacna ttggccantc tccactgga aggtgtatc 1080

```

ccctcaagan ggagccaagg aatgtttttc ccctggagat gccacactaa ttaattttcc 1140
ccatatggtt taancaaccc cttgggtgaa aaaanccaa 1179

```

```

<210> 495
<211> 900
<212> DNA
<213> Homo sapiens

```

```

<400> 495
atggcttctg ctgcctgctc catggacccc atcgacagct ttgagctcct ggatctcctg 60
tttgaccggc aggacggcat cctgagacac gtggagctgg gcgagggtg ggggtcacgtc 120
aaggaccagg tcttgccaaa ccccgactct gacgacttcc tcagctccat cctgggctct 180
ggagactcac tgcccagctc cccactctgg tccccgaag gcagtgatag tggcatctcc 240
gaagacctcc cctccgaccc ccaggacacc cctccacgca gcggaccagc cacctcccc 300
gccggtgccc atcctgcccc gcctggcaag gggccctgcc tctcctatca tcctggcaac 360
tcttgctcca ccacaacccc agggccagtg atccaacaac agcatcacct gggggcctcc 420
tacctcctgc gacctggggc tgggcactgt caggagctgg tgctcacga ggatgagaag 480
aagctgctgg ctaaagaagg catcacctg cccactcagc tgccctcac taagtacgag 540
gagcgagtgc tgaaaaaat ccgccgaaa atccggaaca agcagtcggc gcaagaaagc 600
aggaagaaga agaaggaata tatcgatggc ctggagactc ggtcctgttg ctgtcctttg 660
ccctcatcat cctcccctcc atcagccctt ttggcccaa caaaaccgag agccctgggg 720
actttgcgcc tgtacgagtg ttctccagaa ctttgcacaa cgatgctgcc tcccgcgtgg 780
ctgctgatgc tgtgccaggc tccgaggccc caggaccccg acccgaggct gacacaaccc 840
gagaagagtc tccaggaagc cccggggcag actggggctt ccaggacacc gcgaacctga 900

```

```

<210> 496
<211> 4235
<212> DNA
<213> Homo sapiens

```

```

<400> 496
tttgaacact gcaaaaggct tttattttat aggcaccact gcaaaatgag gaatcacatc 60
aaaacatatc aaatagaaaa taataattta ttttaacttc attttactgt ttgtaactaa 120
tcatgatttt gtgaacttgc ctgtataagt ctgtaccttc aaatctacaa agcaaaagt 180
tactacaatg agcacttaaa attccacaaa ccgtctccat ccacaacttt cctgtacatg 240
caaattcttt cagtgggctg caatatattgc aaacatgctt taaacttcca taaagatgca 300
agatatattg ctttctgcta aaacctttac actctcttgg gaaccttaac caggaaaatg 360
tttaaatgta tatcccaact ctaaacgctg ccggttttgt tatatgtatt aaatcgtaa 420
ccaccgggtt ggggtgtttt gaggtgaaac cttcacctaa atgataatat cttaacggtc 480
acgcatatga aacacattca gtaacgtacc attataaaat agggttccat taaaaataca 540
tactggcagt tgtatttgtg ttttaggcag gaaaaaaagc gtgtttaact tttttatatg 600
aatatagttt aaacaagtta ttctgtgaaa gtatgcttaa taaaagatct ttctgaaatt 660
taaacacttt atgtaaaagg gtacaggtag aaaagtacaa ttgctatttg aaaaaagctc 720
tgtttggtta tattgccttc caagatagta aggggtgttt tctctctctt cccttaaaat 780
agacctatga caccagagt tgtagggtt gcaaatttgg actataaaca tgaagaccgt 840
acttatctta tatcaaaaaa cttgccgat tgaacgaggc aggaatttct acccgatgg 900
tagtggcttc ctttatgtac ataatgcaga agtgaaaatt atacagtagt caccgatagg 960
aaggaattgt atactctagt gccgtccggg gatatttgtgc cgtgggttaa gaggttcttg 1020

```

atcgatcatcc	agttatcgaa	gattttctta	ttctcttct	tcacatcctt	tttggtgctc	1080
agttcgagaa	tgttcatctc	cttctgtca	tgggtgctt	gctgctcctt	gagacaatcc	1140
aacctgctct	gcacatgaa	ctcgcgccg	cgcgctgct	ccttggcctt	caccagggtg	1200
tgcttctct	cctccttgt	ccagtagcgc	cccatcttca	tctcgctcac	cgcgtcgctg	1260
tcggtggtca	tgccgctgcg	ctcttcccgg	atcttcaggg	cgcgctcccg	cagcaggcgg	1320
tcccgcacgg	gcctcttgg	gatgtagcgc	gtcccgctgc	tgccgatctt	caccttccac	1380
tccatgcgcg	gctccgacgg	ggtagggag	ctcaggctct	tgacatgct	caccaggctc	1440
atctggtctt	gcgcgtactc	cacggccgac	ttctgctgga	tcagctgcat	gtagctctgg	1500
tagtgctggc	cgtgcgccgg	gatgtgcgcg	tgcttgtag	gggagtgggtg	ataggagggc	1560
aggtagggcg	tgccagctt	ctggctgggc	gtgggctcc	ggctcccgtc	gctggctctc	1620
cgctctttgc	tttccagggg	ctgggtgggg	tcagctcct	tcagggacgg	gctataggta	1680
ggggtgccc	cttcgggatc	ttccgtgatg	gagagcagat	tcttgagggc	tgcccgtag	1740
gcttccgtgg	tccccacagc	cccttcgctg	ctcgggcagc	tgatgccctc	cgcgctctc	1800
ctcaaggagt	tgccggggga	gatctccagg	gtgagcgggg	tgctgcggca	gctctcgctt	1860
gtgttgtagg	cgctcgagct	gtccttgctg	gatttctccg	ggagctcgg	gatattctgag	1920
agctcgctgc	tgccgacgtc	gatgctgggtg	ttgtagtgtg	ggaagccgct	gttggtgcagc	1980
atccaggagt	cgcggtactg	ctccttgagc	tgctgcacat	tgtagggcgcg	cacgatgctc	2040
aggcactcca	gctcgatgct	gcgcagctct	tcgttcagca	gctccagctc	cttgctccag	2100
ctctcagggt	cactcttgcc	ggcgtccagg	gggcccgtag	ggtagtacag	gccgtaaggg	2160
gtggcgctct	tcacctggca	cttgagctcc	aggagctcgc	ggaagcgcctc	gcactcgtcc	2220
accgggatcc	ccaggtaggc	ggcgcccgtg	cactcggggc	aatgaacga	cttggtgctg	2280
aaggggcagg	cgcgctgccc	caagggtgct	tggtgcagg	tgagcttcc	ctgccccgcc	2340
agcgggttgg	aggatgcgg	ggcgtcgctg	ccattgttct	cttgctccga	gctctcgctc	2400
ttacgggtgc	tctcgctgg	ccgccccaca	ccgctgtcct	tctcgctgctg	gttggaacaag	2460
atggtggctg	tatctgtgg	cccaccgtct	tcgtcgctg	tcttctgctg	cagcacgcta	2520
gctgtgaatt	gcattggcctg	gtggtgctgc	tcctccagca	tgccatgtg	caggteatcc	2580
agaaagtctg	tcctgtcatc	atccatccag	ccctcatcca	gctggagttc	agcccttgca	2640
atcagcaatg	aaaagttttt	atcttcttca	ctgggttagaa	gagccacagc	ctcttcacgg	2700
ttctgcacct	ctatcccatt	aatctggata	atgcggtctc	cttctcggt	gcgcccaccc	2760
ttgggtgcaa	tgctgttagg	gtcaatctca	ctgatataaa	tcccaatgtc	gtcttcacgc	2820
tccgtccgg	agcacacagt	gaggcccagc	ttgtcctggc	tggtcattct	gtagaggctc	2880
acttctctca	gctccagctc	ctccctgtcc	atctcctgat	ggatgtctcc	aatgtagcta	2940
tttggtatcg	agtattcatg	ggctgaggg	tgctcctctg	gcaagagata	gggtatccagc	3000
acgggtgggc	tgggagagga	catcttagtg	agggccatga	tatgttcaaa	gggtatgtcg	3060
gtttgggttc	ccgtgtccac	cagctgagac	tctgatggag	gcgtgaacat	tttggtcctt	3120
ggtgttcttc	tcaacacctg	caccactatg	ggctccttgg	ctgtcttgaa	agcttccaca	3180
gcctggctcat	gagttgctct	ggataagtct	ctgcgcttga	cctcaataat	cctgtcatga	3240
atctgcaggc	ctccttccct	ggctgcaggc	ccactgtcaa	ctatcttgga	tacaaagatt	3300
ccttcactgg	atgatccatc	gtggttatcc	acactcgcc	ggccaccaat	aatattgaat	3360
cccaggggagc	cggagtccc	atgcaggaca	agagtccagc	ttttggtttc	ttcgcccttg	3420
ccgcccggcg	gcgcggccac	gcagcggtg	agcagtcga	ggcgcgcgct	gtattcgggtg	3480
aatttcttct	ggtagcgcag	cgcggtcatc	tgcatgcaa	gctgcgccgc	ggccagctgg	3540
gcaccagcg	acttctcgcg	cttcccagcg	cgcagcgct	ccttcttgag	cgccttgctg	3600
agcgcgccc	ggcgggcctg	gagcgcgcg	ttgtgcgcc	gcagcgtctg	cgcgcagcag	3660
tgccgcccc	cgcgctgctc	gccgtgcgtc	aagggtagcc	cgcagccctc	ctggcagcgg	3720
cccactggcc	gcgcgtcgca	cgcgtcgcg	atgtgcgct	ccacgtcgcg	ccgcagcagc	3780
acctggccgc	aaccgcgctg	gcgacagcgc	gcgggcgcga	agtcgcagcg	ctcagggtgc	3840
tccggcagct	gctgcagctt	gaccacccgg	ccgcagccgc	gcgtcgcgta	cgcgcacttg	3900
atgtccagct	tgaggataag	gcgcttgagc	ggcaggacgt	ggttgagctc	tttgcccgac	3960
agggcgaccgc	ggcagcgcgc	cgggcagctg	ccctcctgca	ccaccagggg	cagcacgcag	4020
ccggcgccaga	agacgtggcc	gcacggcggtg	gtcagcgggt	cctccaggac	cttggtggcag	4080
agcgcgcact	tcagggtccgg	gtccacgtcg	ccgtcgaaagc	gggtccagctc	gaagcccatg	4140
gtggcgccca	ggccccgggg	tcgcccggcg	gcggccgggc	gccccctccc	tccccacgag	4200
gcggcccaga	caggccgggt	acgcccggcg	cgcgc			4235

<210> 497
 <211> 498
 <212> DNA
 <213> Homo sapiens

<400> 497

tttttttttt	ttagtagaga	tgggggttttg	ccatgttggc	caggggtggc	tcacactcat	60
aggctcaagt	aatctgccc	cctcagcctc	caaaagtgt	gggattacag	gcgtgagcca	120
ctgtgcccgg	cctgacttca	aatcctgtgt	tgaatagaag	tagtgagagc	gggcatcctt	180
ctcttgttcc	tgatcttggg	ggcaaagatt	tcagtctttc	atctaaaatg	actgaaagac	240
tttcagccat	gggccttgca	tgactggcct	ttattttgtt	gcagtatatt	ccttctcttc	300
ctggtttgtg	gagtgtttta	ccaggaaagg	gtgttcaggc	tgggcacagt	gggtcaagtc	360
acacaaaagt	gtcaagtcag	ccctgcccac	gggccccagt	gcccattctc	ctgctgaggg	420
gctgggcctc	accttggctg	gctgggcccc	tcccacctgg	atccctgcag	acccacccgc	480
actcagcctc	acacgaaa					498

<210> 498

<211> 421

<212> DNA

<213> Homo sapiens

<400> 498

ctcgcaggcc	gcaagggtgt	gctcttcgtc	tcaggctacg	tcgtgggctg	gggtcccatc	60
acctggctgc	tcatgtctga	ggtcctgccc	ctgcgtgccc	gtggcgtggc	ctcagggctc	120
tgcgtgctgg	ccagctgggt	caccgccttc	gtcctcacca	agtccttcct	gccagggggg	180
gtgagtgttc	agccccaggg	cccaggcccc	taggccctct	ctgactggcc	aggacccttc	240
tcagtgccag	gggctgtgcc	aaggcctgct	gtcaggaccc	taactctcag	tgaccctagg	300
agatgagcac	acaccccctg	aactcagaga	ccccagagtg	gtcacgtgat	agcctagcaa	360
acgctcttca	ttataagaaa	caggaacggg	cgtatgcaac	tgctctggta	agtcagggtta	420
g						421

<210> 499

<211> 572

<212> DNA

<213> Homo sapiens

<400> 499

tttttgggct	ccgggacccc	cgggagtggg	agcggcagtc	ggggacgcct	caactcgttc	60
actcagggaa	tcttgcctat	cgccttctcc	aggccgactt	cgcagaacta	ctgctccctg	120
gagcagccag	gccagggcgg	cagcaccagc	gccttcgagc	agctgcagag	gtcccagcgg	180
cgctcatctc	cccagagatc	ttccttggag	accctggaag	atattgagga	gaacgcccct	240
ctccggagat	gtcgaactct	ctcaggttca	cccagaccaa	agaattttta	gaagattcat	300
tttatcaaga	acatgcggca	acacgatacc	aggaaatggc	gaatagtctt	tatcagtggc	360
agaagatcct	tctgtagtat	attttccagt	ctgccgtatc	gcgacagtac	ccaagtccgg	420
tatgtatatg	catgcatgct	ttgtagtctt	ctgggtgaaa	agatctcaca	ccaatgtaca	480
taatgtggcc	atcctttcca	ttttcaagaa	gttgcccttg	tttgatactg	caaattcagt	540
atttgtacac	tggaaatgata	aaaagatggt	cc			572

<210> 500
 <211> 1642
 <212> DNA
 <213> Homo sapiens

<400> 500
 atgagacgct ttttaagcaa agtctacagt ttcccaatga gaaaattaat cctctttctt 60
 gtctttccag ttgtgagaca aactcccaca cagcacttta aaaatcagtt cccagctctg 120
 cactgggaac atgaactagg cctggccttc accaagaacc gaatgaacta taccaacaaa 180
 ttctgtctga tcccagagtc gggagactac ttcatttact cccaggtcac attccgtggg 240
 atgacctctg agtgcagtga aatcagacaa gcaggccgac caaacaagcc agactccatc 300
 actgtgggtca tcaccaaggt aacagacagc taccctgagc caaccagct cctcatgggg 360
 accaagtctg tgtgcgaagt aggtagcaac tggttccagc ccatctacct cggagccatg 420
 ttctccttgc aagaagggga caagctaatt gtgaacgtca gtgacatctc tttgggtggat 480
 tacacaaaag aagataaaac cttctttgga gccttcttac tataggagga gagcaaatat 540
 cattatatga aagtccctctg ccaccgagtt cctaattttc tttgttcaaa tgtaattata 600
 accaggggtt ttcttggggc cgggagtagg gggcattcca cagggacaac ggttttagcta 660
 tgaaatttgg ggccaaaatt tcacacttca tgtgccttac tgatgagagt actaactgga 720
 aaaaggctga agagagcaaa tatattatta agatgggttg gaggattggc gagtttctaa 780
 atattaagac actgatcact aaatgaatgg atgatctact cgggtcagga ttgaaagaga 840
 aatatttcaa cacctcctgc tatacaatgg tcaccagtgg tccagttatt gttcaatttg 900
 atcataaatt tgcttcaatt caggagcttt gaaggagtc caaggaaagc tctagaaaac 960
 agtataaact ttcagaggca aaatccttca ccaatttttc cacatacttt catgccttgc 1020
 ctaaaaaaaaa tgaaaagaga gttggtatgt ctcatgaatg ttcacacaga aggagttggt 1080
 tttcatgtca tctacagcat atgagaaaag ctacctttct tttgattatg tacacagata 1140
 tctaataaag gaagtatgag tttcacatgt atatcaaaaa tacaacagtt gcttgtattc 1200
 agtagagttt tcttgcccac ctattttgtg ctgggttcta ccttaaccca gaagacacta 1260
 tgaaaaacaa gacagactcc actcaaaatt tatatgaaca ccactagata cttcctgac 1320
 aaacatcagt caacatactc taaagaataa ctccaagtct tggccaggcg cagtggctca 1380
 cacctgtaat cccaacactt tgggaggcca aggtgggtgg atcatctaag gccgggagtt 1440
 caagaccagc ctgaccaacg tggagaaacc ccatctctac taaaaataca aaattagccg 1500
 ggcgtggtag cgcattggctg taatcctggc tactcaggag gccgaggcag aagaattgct 1560
 tgaactgggg aggcagaggt tgcggtgagc ccagatcgcg ccattgcact ccagcctggg 1620
 taacaagagc aaaactctgt cc 1642

<210> 501
 <211> 2629
 <212> DNA
 <213> Homo sapiens

<400> 501
 tttcgtctgg gacgaggtgg cccagcgctc aggggtgcgag gagcgggtggc tagtgatcga 60
 ccgtaagggtg tacaacatca gcgagttcac ccgccggcat ccagggggct cccgggtcat 120
 cagccactac gccgggcagg atgccacgga tccctttgtg gccttccaca tcaacaaggg 180
 ccttggtgaag aagtatatga actctctcct gattggagaa ctgtctccag agcagcccag 240
 ctttgagccc accaagaata aagagctgac agatgagttc cgggagctgc gggccacagt 300
 ggagcggatg gggctcatga aggccaaaca tgtcttcttc ctgctgtacc tgctgcacat 360
 cttgctgctg gatgggtgcag cctggctcac cctttgggtc tttgggacgt cctttttggc 420
 cttcctcctc tgtgcgggtg tgetcagtg agttcaggcc caggctggct ggctgcagca 480

tgactttggg	cacctgtcgg	tcttcagcac	ctcaaagtgg	aaccatctgc	tacatcattt	540
tgtgattggc	cacctgaagg	gggccccgcg	cagttggtgg	aaccacatgc	acttccagca	600
ccatgccaa	cccaactgct	tccgcaaaga	cccagacatc	aacatgcac	ccttcttctt	660
tgccctgggg	aagatcctct	ctgtggagct	tgggaacag	aagaaaaaat	atatgccgta	720
caaccaccag	cacaaatact	tcttccta	tgggccccca	gccttgctgc	ctctctactt	780
ccagtgggat	atcttctatt	ttgttatcca	gcgaaagaag	tgggtggact	tggcctggat	840
gattaccttc	tacgtccgct	tcttcctcac	ttatgtgcca	ctattggggc	tgaaagcctt	900
cctgggcctt	ttcttcatag	tcaggttcct	ggaaagcaac	tggtttgtgt	gggtgacaca	960
gatgaacat	attcccatgc	acattgatca	tgaccggaac	atggactggg	tttccaccca	1020
gctccaggcc	acatgcaatg	tccacaagtc	tgccttcaat	gactgggtca	gtggacacct	1080
caacttccag	attgagcacc	atctttttcc	cacgatgcct	cgacacaatt	accacaaagt	1140
ggctccccctg	gtgcagtcct	tgtgtgcca	gcatggcata	gagtaccagt	ccaagcccct	1200
gctgtcagcc	ttcgccgaca	tcaccactc	actaaaggag	tcagggcagc	tctggctaga	1260
tgccatctct	caccaataac	aacagccacc	ctgccagtc	tggagaaga	ggaggaagac	1320
tctggagcca	aagcagaggg	gagcttgagg	gacaatgcca	ctatagttta	atactcagag	1380
gggggttgggt	ttggggacat	aaagcctctg	actcaaactc	ctccctttta	tcttctagcc	1440
acagttctaa	gacccaaagt	ggggggtgga	cacagaagtc	cctatgaggg	aaggagctgt	1500
tggggcaggg	gtgtaaatta	tttcttcttt	ctagtgtgga	acatgcaggt	agttggtgaa	1560
cagagagaac	caggagggtta	acagaagagg	aggacctac	tgaaccaga	gtcaggaaga	1620
gatttaacac	taaaattcca	ctcatgccgg	gcgtgggtgg	acgcgcctgt	aatcccagct	1680
accaggagg	ctgaggcagg	agaatcgctt	gaaccgggga	ggtggagggt	gcagtgcagc	1740
gagatcacgc	cattgtactc	cagcctgggg	gacaaagcaa	gactccatct	caaaaaataa	1800
ataaataaaa	aaataaaaata	aaatgggtctg	gatttgggtca	acaccttatt	cagtaaatcc	1860
ttaatttacc	ttgagacata	caaagacatt	cttttaaaga	gctattttct	tggtattgca	1920
caaagggttaa	ttttaagca	atccaggcaa	gtaagctcac	aaaaagaagt	acattcatct	1980
aatccattta	gcaaatgttg	caaatcagct	tccaccaata	aaacgtagaa	atctgtgaaa	2040
ctctatcctt	cgtgtcagtt	ttaacattgt	gttgatggca	gccatttcag	gcagaggtag	2100
ccaagttcca	tatatatggg	gaaggcaaaa	agcagaaaaa	cattgcagga	gacttagcag	2160
ttctctggct	tctaatagact	atagagcaat	ttcgaatatg	agccatgttt	ctatgcagaa	2220
ttcttctttt	atgccttaaa	cacaaaagag	cttgttgctg	ccttgggcag	atatactgga	2280
attgtcctct	ttgagcttac	tttctctttt	ctctaaggtc	aagtaaaaaa	tgtgagacgt	2340
tttcataata	cacaaaggta	atacagcagg	ctggagtcac	tctaatacaa	ttaggagcaa	2400
ttcccttgta	aaatccaccg	acgccttctt	tcctccatgt	ctttgtgatt	acatctatta	2460
caccactgta	aaacatgtgt	tgatcctgaa	gacgagctct	tacgacttga	tatgggtatg	2520
ttgctgcgac	agcaaatatt	ttggatagtg	ctgcaacaga	tatatattct	actgtgctca	2580
actgggcttc	tgtaaatcta	ttgatatgct	ggttgtactt	caacttcag		2629

<210> 502
 <211> 997
 <212> DNA
 <213> Homo sapiens

<400> 502						
cgttctctcc	tgcagggaaa	gctcacaact	cctcacagcg	atctgggtatc	ttgagcgtca	60
gtttctggcc	gaaactgggg	gctcctgact	gaactccctc	ccacctagaa	aaccttctgt	120
gcagtctgat	tgctccaaca	cccacagagc	aggattcagg	tatcccggag	accttgggag	180
gtcccccattc	agaggtctgc	gtccttgcca	gctctggggc	agcagggact	gggacccac	240
tcagacctct	ctggggcaaa	tgttttgggt	ctcacaacag	ccctagtga	atcaatccta	300
gatactccca	tttgggtcca	ccaaggccat	ttaatttctc	tgtaaagggt	aagatgacac	360
aaaagagcca	actatggaaa	cggtgagggt	ggagtctgaa	ccgatttagc	tgttctcagg	420
gcgcacaggg	tgttgacggg	ggttttcatc	tgccacctgc	ctccttgaga	cccagctggc	480
ctgagtgtgc	acgaaatggg	accttctcct	tgggtccacc	aggctgggag	gcacccctag	540
gtacccgggt	cctcatcaca	gcggcagccc	ctctgggtcc	acatctgggt	ctcctgacga	600
agccgctggt	tttcggtccg	gagcctctgg	acctcgagc	ccagctcctc	cacctggcgg	660
caggactgct	ggcgggtgca	cgccctgcag	tgctgcagcc	tcctagtctc	ctcctccgcc	720
tgcgacagcc	gcttctccag	ctccaggtag	tctcgcacca	gctcctgctt	gctgcggccc	780

tgcaggctct	cgggtgtggaa	gcggttcgtaa	gtctcagaga	agtccttccg	ctggaactca	840
ccgtgcgctc	ggccccgccc	atcactgtcc	ccggcctcac	tctccccact	ggaacctggg	900
tgggagatcc	catggggcac	atccaagttg	ggctcctccg	ggtcctgtc	attcatcagg	960
aactgggtgg	tgttgtaggg	aattccacca	cactgga			997

<210> 503
 <211> 1586
 <212> DNA
 <213> Homo sapiens

<400> 503

aaatgcacat	ctcatggcag	ctaagccaca	tggctgggat	ttaaagcctt	tagagccagc	60
ccatggcttt	agctacctca	ctatgtgtgt	tcacaaacct	tgctcctgtg	taaaactata	120
ttctcagtg	agggcagaga	ggtctaacac	caacataagg	tactagcagt	gtttcccgtg	180
ttgacaggaa	tacttaactc	aataattctt	ttcttttcca	tttagtaaca	gttgtgatga	240
ctatgtttct	attctaagta	attcctgtat	tctacagcag	atactttgtc	agcaatacta	300
aggggaagaaa	caaagttgaa	ccgtttcttt	aataatgctg	atctactttt	tgttgaattt	360
gtatttttatt	tcaagtgtca	aagaaatcat	ctttgtttat	ttagatgaaa	ccaaacacta	420
cacatttaca	ctcacactgc	ttccaggacc	caagggtttc	acagaccatt	tgcctacctg	480
gttcttttct	ctcctctttc	cagtgatctt	tagaataccc	tttcaaagga	ccacatgaat	540
atacgaactg	taaaattcaa	ctttgatctt	ttgcgaaatg	ttttatttac	tgcttaaaat	600
ctagggtgggt	ggatatattc	atgtatgcat	atattgatag	attaatacaa	acataagtat	660
gtattttaat	tgaaggataa	gtaaagttag	agtacaacag	ccccattctt	agttaaaaag	720
aaaagaaaaa	gacaagagca	agccactgcc	accacaggta	ccagcactta	aatttgtcag	780
caggctgacc	aaagagtggc	ctgtctgttg	gcattcatcg	gacatggcag	ctcccttcag	840
ctctccagtg	agtttcaagt	tcagagcact	ttcagtcctt	gtcttgttta	tctattactg	900
aagggtttct	aggaaggttt	agcagtgtct	caattttctt	agcatcatte	tcaggttcat	960
cttctgttaa	actactttca	attttctcag	ggaggtgctc	agtaacttgt	agtctgcctt	1020
tccactcttc	cagtttttagc	tcatggagtg	cctttcgatc	cttctgtttt	ctttcctgaa	1080
cagtctcacc	agagtacttc	tgaaatgcc	tcagcaggcc	tcctacagga	gtgccagca	1140
aggctccaat	tatgccacca	gccaccaggc	cacgcaggcc	tacgtttatc	ctaaaaagac	1200
ttcccgtgac	agtctttgccc	aaacagctcc	cggaggcggt	cccatccaga	ttccgggtaa	1260
tagggctctg	ggacgtaggg	aagccgcttc	tgacgctcct	caaggacttc	cgaatcggca	1320
gtcacagctt	cggcagcaaa	gactcgggga	aataggcaca	atgctctaca	gagaaagctc	1380
cgcggtgccg	gtggcggcac	ctccatggcc	ttctctcgac	ctacggacaa	acttgagcgc	1440
tcaggacttc	aagtccctgc	ggacgtgccg	cgggagagcg	taactgtacg	agggtgagaat	1500
ccgtgcattt	gacccagggt	aaccctctgc	cagagggtcc	gacaccacaa	ccttcagtc	1560
ccggcctcgc	tttgccgacg	cgtggg				1586

<210> 504
 <211> 1442
 <212> DNA
 <213> Homo sapiens

<400> 504

cggggggctg	ggggctgggc	ccagccggac	gcgacctcag	cctgcggcgg	ctaactgccg	60
gtaggcgctc	gtgtgcgccg	ccaagtccgt	ggggcgggga	cgcgaggtgt	ggatgggggg	120
tcgccttgac	ctctgcctca	gccagttagc	cagtctcgcc	ctcgccgtta	cggagatggt	180

gccctgggtg	cggacgatgg	ggcagaagct	gaagcagcgg	ctgcgactgg	acgtggggacg	240
cgagatctgc	cgccagtacc	cgctgttctg	cttctgtctg	ctctgtctca	gcgccgcctc	300
cctgcttctt	aacagggtata	ttcatatttt	aatgatcttc	tggtcatttg	ttgctggagt	360
tgtcacattc	tactgctcac	taggacctga	ttctctctta	ccaaatatat	tcttcacaat	420
aaaatacaaa	cccaagcagt	taggacttca	ggaattattt	cctcaaggtc	atagctgtgc	480
tgtttgtggg	aaagtgaat	gtaaacgaca	taggccttct	ttgctacttg	aaaactacca	540
gccatggcta	gacctgaaaa	tttcttccaa	ggtgatgca	tctctctcag	aggttcttga	600
attagtgttg	gaaaactttg	tttatccgtg	gtacagggat	gtgacagatg	atgaatcctt	660
tgttgatgaa	ctgagaataa	cattacgttt	ttttgcatct	gtcttaataa	gaaggattca	720
caagggtggat	attccatcta	ttataaccaa	gaaactatta	aaagcagcaa	tgaagcatat	780
agaagtgata	gttaaagcca	gacagaaagt	aaaaaataca	gagtttttac	agcaagctgc	840
tttagaagaa	tatggtccag	agcttcatgt	tgctttgaga	agtcgaagag	atgaattgca	900
ctattttaagg	aaacttactg	aactgctttt	tccttatatt	ttgcctccta	aagcaacaga	960
ctgcagatct	ctgaccttac	ttataagaga	gattctgtct	ggctctgtgt	tccttccttc	1020
tttggttttc	ctagctgatc	cagatactgt	gaatcatttg	cttatcatct	tcatagatga	1080
cagtccacct	gaaaaagcaa	ctgaaccggc	ttctcctttg	gttccattct	tgcagaaatt	1140
tgcagaacct	agaaataaaa	agccatctgt	gctgaagtta	gaattgaagc	aaatcagaga	1200
gcaacaagat	cttttatctt	gttttatgaa	ctttctgaaa	caagaaggcg	cagtgcacgt	1260
gttgacaggt	tgttttgact	gtggaggaa	ttaatgatag	aattttacga	ccagaattat	1320
caaattggatg	aaatgctgtc	tcttcatgaa	gaattgcaga	agatttataa	aacatactgt	1380
ttggatgaaa	gtattgacca	aattagattt	gatcccttca	ttggtagaag	agattccaag	1440
aa						1442

<210> 505
 <211> 1284
 <212> DNA
 <213> Homo sapiens

<400> 505						
ccagagcctg	gctgaggtcc	tgcagcagct	ggggggcctcc	tctgagctcc	aggcagtact	60
cagctacatc	ttccccactt	acggtgtcac	cccccaaccac	agtgcctttt	ccatgcacgc	120
cctgctggtc	aaccactaca	tgaaggagg	cttttatccc	cgaggggtta	ccagtgaat	180
tgccttccac	accatccctg	tgattcagcg	ggctgggggc	gctgtcctca	caaaggccac	240
tgtgcagagt	gtgttgctgg	actcagctgg	gaaagcctgt	ggtgtcagtg	tgaagaagg	300
gcatgagctg	gtgaacatct	attgccccat	cgtggtctcc	aacgcaggac	tgttcaacac	360
ctatgaacac	ctactgccgg	ggaacgccc	ctgcctgcca	ggtgtgaagc	agcaactggg	420
gacggtgcgg	cccggcttag	gcatgacctc	tgttttcate	tgcttgcgag	gcaccaagga	480
agacctgcat	ctgccgtcca	ccaactacta	tgtttactat	gacacggaca	tggaccaggc	540
gatggagcgc	tacgtctcca	tgcccaggga	agaggctgcg	gaacacatcc	ctcttctctt	600
cttcgctttc	ccatcagcca	aagatccgac	ctgggaggac	cgattcccag	gccgggtccac	660
catgatcatg	ctcataccca	ctgcctacga	gtggtttgag	gagtggcagg	cggagctgaa	720
agggaagcgc	gggcagtgac	tatgagacct	tcaaaaactc	ctttgtggaa	gcctctatgt	780
cagtggctct	gaaactgttc	ccacagctgg	aggggaagg	ggagagtgtg	actgcaggat	840
ccccactcac	caaccagttc	tatctgggct	gtcctccgag	gtgcctgcta	cggggctgac	900
catgacctgg	gccgcctgca	cccttggtgtg	atggcctcct	tgagggccca	gagccccatc	960
cccaacctct	atctgacagg	ccaggatata	ttcacctgtg	gactggctcg	ggccctgcaa	1020
ggtgccccgc	tgtgcagcag	caccatcctg	aagcggaact	tgtactcaga	ccttaagaat	1080
cttgattcta	ggatccgggc	acagaagaaa	aagaattagt	tccatcaggg	aggagtca	1140
ggaatttgcc	caatggctgg	ggcatctccc	ttgacttacc	cataatgtct	ttctgcatta	1200
gttccttgca	cgtataaagc	actctaattt	ggatctgatg	cctgaagaga	ggcctagtta	1260
aatcacaatt	ccgaatctgg	ggcc				1284

<210> 506
 <211> 1757
 <212> DNA
 <213> Homo sapiens

<400> 506
 tttttttttt ttcagagctt aaaaaccaa aggcagaaaa tagactttat tccaagacag 60
 atttgtaaaa gatgttttta aagggaaagg caagtacgc tactaaatca aacattgttc 120
 acaatttctg gatcttcctc ctccgcctgg cactgcagct gagccttggc ggatatgttc 180
 ggggcccctg gcgcagagga acttagcctc gattctcttc ctgaggggct tcttaacttt 240
 tccaagccag gcagtgcagc tgggtggagg ctggggctgg tgcctgcgga cagctccaga 300
 tggaatccca ggcacagggtg cttctagtgt cccccagcg agcttgccgt gtggcaggcg 360
 gccaggaagg gccatgagca ggggtggcctg aatgaaaacc gagggccgaa gccagcctga 420
 ctccctcgcc taagctgggg ctcggtccga ggcacacgca tggccttggc cagacacaaa 480
 ccaagagact gccatgacag acagagcaga aacctcccga gcactgtgtt caagctaagc 540
 tttcctaaga cgggtctctc aggcgagacg tgacaccaga caccgtcgca tgttacttgg 600
 agagaacaga gacgtgcggg ccacagcggc ccaccaagg ctgccatcca agctgagttc 660
 cgcaggcctc acctgcagct ggagagggac cttgccctga tctcctgtgt aggtaccgcg 720
 taagggattc aggacagagc gtcacactgc acgcagggtc ctccgccacc accatccaag 780
 aaccccgggg ggctggccac gcgctggcct ctgccaagga gtgccagtgg tccccgggac 840
 ggggcccggc aagcagggtga gggaggttta gatgaatgac ttggccaggg tcacatgtg 900
 gtccaagcca catgccagct ccacaggctc cccaggcatc gtcacctcc atgggaaata 960
 ctggctcctc aggcgaccga tccccaggca cctcggatg ttcttgcccc atacaaacag 1020
 ctctcctttg ttggtcagtg cagcaaagtg gctgagtcca catcggtatg gggaaacctg 1080
 gatttctggg ttgaactccg tcaagccaaa gagagtgggt ggaatcatth cagggacggc 1140
 actttccact aggtttggac ctttcccaag aattccatag cccagacaaa aaacatgtcc 1200
 ttctcgtttt aacactgcac agcccggtgc accgcatgca gctgtcga ccttccccac 1260
 tcttgagaag tgtaagcagc ggggcacatt cacctgtgtg gactcagtga cagaggccag 1320
 ctgcaggtag tccgagtttc cccaacaaa aagtccctcg tcggcggaca cggccaggca 1380
 gcaatcaccg taggtggcaa cttggataac gttactccc gccagggtct caccagctt 1440
 ggtgggagag ctggtgatat tgtagtacc cagacctgtt tgcccatcag cccccatcc 1500
 acaagaatag acttctcctt tatccgtcag gaacagacta tgatcctgac cacaggcgac 1560
 ctggaccacc tggccatcga agtctgcac cctgtggact ctgtgacttt cactgtaaat 1620
 ttcatthctg accacctttc ttccacattg ccataagaa ttgtttccca tgctgaagac 1680
 tcttccctg tcagtcaaca caagagagtg agctcgccg caggagactt gcagcaccgc 1740
 tgtctcctga ggtctgt 1757

<210> 507
 <211> 618
 <212> DNA
 <213> Homo sapiens

<400> 507
 gaattcttga aggaaaagga gaaattagaa atggagttag cagcagtgcg gactgcaagt 60
 gaggaccatc ggagacacat cgagatcctg gaccaggctt tgagcaacgc ccaggccagg 120
 gtcacaaagc tggaaagagga gttacgagag aagcaagcat atgttgagaa agttgagaag 180
 ctgcagcagg ccctgaccga gctgcagtct gcatgtgaga agcagagaaca gatggagcgg 240
 agactgcgga cttggctgga gagagagctg gatgcactga gaaccagca gaaacatgga 300
 aatggccagc cagccaacat gccggaatac aatgccccag cctcctgga acttgtgcgg 360
 gagaaggagg agcggatcct ggcctggag gccgacatga caaagtggga gcagaagtac 420
 ctggaggaga gcaccatccg acactttgcc atgaatgccg cagccactgc agcagctgag 480
 agggacacca cgatcatcaa ccactcacgg aatggcagct acggagagag ctcgctggag 540

gccacatct ggcaagagga ggaggaggtg gtgcaggcca acagaaggtg tcaggacatg 600
gaatacacta ttaaaaat 618

<210> 508
<211> 2214
<212> DNA
<213> Homo sapiens

<400> 508
atgcaggcgg tccgcgccac tgcctctcag tccctgtcct gcgcccgcgc gccccgggag 60
cctaccacagc acgcgctccg cgcctactgg tccctccag ccgcccgcgt ccagccgagt 120
ccccactccg gagtcgccgc tgcgcggggg acatggctct ctgctgtcag ggggtgagcac 180
ccccttgtaa gctcagggtc actgttgggt gtcagggaac aaagttag actgctgcgc 240
tccaaagcgg gcacacacat gtacctagaa cacaccagcc actgtcccca ccatgatgat 300
gacacagcca tggacacacc cctgcccaga cctcgccctt tgctggctgt ggagcggact 360
gggcagcggc cctgtgggc cccgtccctg gaactgcccc agccagacat gcagcccttg 420
cctgctgggg ccttccctga ggaggtggca gagggtaccc cagcccagac agagagttag 480
ccaaaggtgc tggacccaga ggaggtatct ctgtgcatag ccaagacctt ctcctacctt 540
cggaatctg gctggtattg gggttccatt acggccagcg aggcccgaca acacctgcag 600
aagatgccag aaggcacgtt cttagtacgt gacagcacgc accccagcta cctgttcacg 660
ctgtcagtga aaaccactcg tggccccacc aatgtacgca ttgagtatgc tgactccagc 720
ttcgtcttgg actccaaactg cttgtccagg ccacgcctcc tggcctttcc ggatgtggtc 780
agccttgtgc agcactatgt ggccctcctgc actgctgata ccggaagcga cagccccgat 840
cctgctccca ccccgccct gcctatgcct aaggaggatg cgcctagtga ccagcactg 900
cctgctcctc caccagccac tgctgtacac ctaaaactgg tgcagccctt tgtacgcaga 960
agcagtgcgc gcagcctgca acacctgtgc cgccttgtca tcaaccgtct ggtggccgac 1020
gtggactgcc tgccactgcc ccggcgcatg gccgactacc tccgacagta ccccttccag 1080
ctctgactgt acggggcaat ctgcccaccc tcaccagtc gcaccctgga ggggacatca 1140
gccccagctg gacttggggc cccactgtcc ctccctcagg catcctgggtg cctgcatacc 1200
tctggcagct ggcccaggaa gagccagcaa gagcaaggca tgggagaggg gaggtgtcac 1260
acaacttggg ggtaaattgcc ccaggccgc atgtggcttc attatactga gccatgtgtc 1320
agaggatggg gagacaggca ggacctgtgc tcacctgtgg gctggggcca gacctccact 1380
cgcttgcttg ccttgccac ctgaactgta tgggcactct cagccctgggt ttttcaatcc 1440
ccagggtcgg gtaggacccc tactggcagc cagcctctgt ttctgggagg atgacatgca 1500
gaggaactga gatcgacagt gactagtgtc cccttgttga ggggtaagcc aggctagggg 1560
actgcacaat tatacactat ttatttattt attctccttg gggttggtgt caggggagag 1620
ccaacccac ctctatgccc tgagccctgg tagtcagag accccaactc tgccctgggt 1680
tctctgggtc tccctgtgg aaagcccac ctgagacatc ttgctggaac caaggcaatc 1740
ctggatgtcc tggtagtgac ccaccgtct gtgaatgtgt ccactctct ctgccccag 1800
ccatatttgg ggaggatgga caactacaat aggtaaagaaa atgcagccg agcctcagtc 1860
cccagcagag cctgtgtctc accccctcac aggacagagc tgtatctgca tagagctggg 1920
ctcactgtgg ccgcaggccc cggggggagt gcctgtgctg tcaggaagag ggggtgctgg 1980
tttgagggcc gccactgcag ttctgctagg tctgcttcc gccaggaag gtgctgcac 2040
atgagaggag agaaatacac gtctgataag acttcatgaa ataataatta tagcaaagaa 2100
cagtttggtg gtcttttctc ttccactgat ttttctgtaa tgacattata cttttattac 2160
ctctttattt tattacctct ataataaaat gataccttcc atgtaaaaaa aaaa 2214

<210> 509
<211> 2355
<212> DNA
<213> Homo sapiens

<400> 509

tttcgttgat	atcttccaga	gatggaaaga	gtgcagggga	aagagccctg	cccaggcgga	60
actctcctat	ctgaataaag	cgaagtggct	ggaaatgtat	ggggtagaca	tgcacgttgt	120
caggggaaga	gatggctgtg	aatattctct	tggactgacc	ccgacaggca	tattaatctt	180
tgaaggagct	aacaaaatag	gcttattctt	ttggcctaaa	attaccaaaa	tggattttta	240
aaagagcaaa	ttgacactcg	tgggtggcga	ggatgatgat	cagggacgtg	agcaagagca	300
cacgtttgtg	ttccgggttag	acagtgccag	gacctgcaaa	cacctttgga	agtgtgcagt	360
tgagcaccac	gcattcttcc	gactgcggac	gccaggaaac	agcaaatacca	atagatccga	420
ctttatcagg	ctgggctctc	gcttcagatt	cagtgggcgg	acagaatatc	aagctacaca	480
tggctccagg	ttacgaagaa	ccagcacctt	tgagagggaag	cctagtaaac	gttatccatc	540
ccggagacat	tcaacgttca	aagcaagcaa	cccagtgata	gcagcccagc	tctgctctaa	600
aacaaatcca	gaagtccata	attaccagcc	tcaatatcat	cctaatatcc	atcccagcca	660
gccccgggtg	caccctcact	ctccaaatgt	caggccatcc	tttcaggatg	acaggctcga	720
ttggaaagca	tcgggccagt	gagatgacag	gcattttgat	tatgtccacg	accagaacca	780
gaagaactta	ggagggatgc	aaagtatgat	gtatcgagat	aaactcatga	ctgcactttg	840
agagactgaa	gcatctctct	tccattcacc	ttcatagttt	cattgcattc	catgaaaagt	900
gtcttggcct	cagatggatg	gatgtgtttg	gacgagtgtc	tttaaggagt	agtcctgaaa	960
gggtgttttg	gtgtccatgt	aaatatttga	agataaaaacc	actatagctt	gtcataattt	1020
actgttgact	gcattctcat	taaaatgaag	gtaagggtc	aggaatcata	ttgatgttct	1080
gattttaaaa	ttggagtcaa	agtctatgtt	tatcatttta	ctatgttctt	gatgttcttt	1140
gttatttaac	taatgggagc	aaataaaaacc	agaagagctt	gggaagattg	ctcagcatat	1200
attcctgtcg	aataagttga	gattgctagg	gtccagtttc	cctagtgtgg	cctggacgag	1260
tcatttcccc	ttcattgacc	tcattttccc	catctgaaaa	gagaggggtg	gactaagtga	1320
tctccaaggt	cctttccaac	tctaaaattc	tgcaatttgt	taacatttca	ttttgtttag	1380
gttgaggaca	tacattcaaa	ctaattttat	cacaaggaaa	actgcaatac	ccacttcctt	1440
gacagagtta	ctccttttcag	aagctaaata	aagtatataa	cttattagat	gttatataga	1500
tacaggggga	ctttgaattt	cacatcttaa	agcagttgag	ctactttgaa	tttaagcagt	1560
cgtactaatc	ttaaattgca	tagcatttgt	tttgatcgaa	tttgctgtc	aagtatggga	1620
ataattttta	atgtcttaac	gattgggtgt	gctaacttgc	gtgatttcag	aagacataat	1680
tgtgaataca	cactgtcaga	attgggggat	tggtttttac	cctagacttc	actcttaaaa	1740
agcaacgtgc	aatcaagatc	atttatggct	caaataaag	catataaggt	tttcttgaag	1800
ttgtgccaaa	gcattctgta	gagtaggatg	agatgggtgt	tgccctagtc	tgttggtaga	1860
accagaaatc	aatatgttgt	cttttaggtt	aaagcttgta	ccaaaatatt	tatttccccc	1920
atttcaagcc	ctgagtcaaa	catttttttc	tcttaataat	agacctgaaa	tgttttatta	1980
gtatttctgt	gaaatcagtt	gattcttgtg	ccatttttgt	atatgtaatt	gtaattttgc	2040
ccatgttagg	ccctctaaaa	aatgtttgac	atcctttgag	atattttatt	actaaaatct	2100
gatctttttt	ggctactgca	aaaatctatt	cagcaagaag	gtatcagctg	cataccttgc	2160
acagtggagc	tgactaccta	taaactctcc	ctaaggcatt	tgtttacagg	tgtattccat	2220
tttagcagac	gttctgatgc	tcagtgtatg	tgctgcatac	aaataaatgt	gttctgaatc	2280
ttttcatctt	attgatagca	ttttaacaaa	tgtgtttcca	aggaataaag	attattcttg	2340
cttttaaaaa	aaaaa					2355

<210> 510
 <211> 775
 <212> DNA
 <213> Homo sapiens

<400> 510

tgggtggaatt	cgattaatac	agaaactgac	atggcgatca	agacaacagg	atcgagaaaa	60
ctgtgctatg	aaaggcaagc	ataaagatga	atgccacaac	tttatcaaag	tatttgttcc	120
aagaaacgat	gagatggttt	ttgtttgtgg	taccaatgca	ttcaatccca	tgtgtagata	180
ctacagggta	agtatatctt	atgtgatatg	cttcttttga	tcaacttttc	tcccttcact	240

gatatgctgt	tagagttgaa	atctttctgc	tttccagtaa	tttgttttat	ctctagtgc	300
atgaaagaat	aaagacagaa	ttcttcaaat	ggaattttta	tacaaataaa	atagtattgc	360
cttcaaacgg	gcacgttgaa	tagatatgac	actggctatt	tacttttctt	ttgtagtga	420
gtaccttata	atatgatggg	gaagaaatta	gtggcctggc	aagatgccca	tttgatgcc	480
gacaaaccaa	tggtgccctc	tttgctgatg	ggaagctgta	ttctgccaca	gtggctgact	540
tcttgccag	cgatgccgtt	atttatcgaa	gcatgggtga	tggatctgcc	cttcgcacaa	600
taaaatatga	ttccaaatgg	ataaaagagc	ccactttctt	tatgccataa	aaatggaact	660
atgtctattt	ttcttttcga	gaaatcgtgg	caacataata	attaggcagg	ctgtggattc	720
ccggtggccc	gatatgaaaa	acaactgggt	ggtcccacgg	tctgagaaca	ttgat	775

<210> 511

<211> 1553

<212> DNA

<213> Homo sapiens

<400>	511	
tttttttttt	ttaagtttga	agccttgccc
tgtagagct	gggaagccac	cttttgctca
cacacctgat	tttaagtgt	taaaggacag
ttcagagaca	tctggatttg	ctgtatccat
aaccacact	aattttgtat	tgcctcgta
ggcttttgg	tgtaaattca	agtggaaatt
tgagggctgt	gaggaagatg	gccagtaggt
tactgggcag	gtggccggct	gtccctcagg
tgagccacat	ttgcagaata	tagccagagt
ggcatccag	ggcacacaag	tgtcaagggc
tgttattaac	agaagaggct	acggcttaga
ggcagcctgt	gtactctgcc	aagtttgggt
ggttgctcgg	catctggcca	ctaggggggc
ccttagcacc	tggtttatac	agcttcctgg
cactcttctg	ggagcaccag	agccggctgc
gcgggaatgt	ctgcttctct	tgcagctgta
cagcttctac	ctgggtcagt	gccgggggtg
tcaccctccc	aacacacaca	taattcttct
gcatctcagc	ggctgacagg	tcggatacgt
cggtcacgaa	agctctggat	gcgtctcggc
cgtagtgct	ccggccggag	gacacatcgt
ccgggtcccc	tgggcccggc	cggtagcgag
cagcgcgggg	accccaccag	cccataagcc
ccaggcccaa	caaaagccca	cggectccgc
cgcacttccg	agggtgccc	ctctatctac
gtcatcggcg	cgcgcgctct	cgctctctct
		ctcgcgcgct
		agtgtctcgc
		ctc

<210> 512

<211> 1260

<212> DNA

<213> Homo sapiens

<400> 512
 tccttctctg gccctgccct tgcctgttcc cctttctggt cctgccatgt ttctggccct 60
 gccctgtcca tgtcctggac ctgactctgg ccctggacct ccctgtccct gccctgccat 120
 accttggtccc gttccttggc ctacactgac cctgccctgc cttggccctg tgctacccta 180
 gccctgccct ggccctctgc tgaccctgat cctgccatgg ccctggccct gccatgtccc 240
 tgccttgccc ctggttctgc cctgttctgc gccctggcct tggctcctctc atgtccctgg 300
 ctgtgacctt gccctgggtt tttctctggc catgacctg ccccggttct gtcctatccc 360
 tggccctgtc tcagttctgt cctagccctg gcctttcaca gtactttatg cttagtaagg 420
 gctccatggt gtctgtgagt tgaatgttgt attcatagta tctgccaaaa cagaaagaaa 480
 aaaaacaaaa tattttgata agaagttaaa gctttgtata taatatgcct tgaattgtaa 540
 gtgctgttta ttagtgtat tacatatagg tcatggtttt gtacacataa ctccaaacca 600
 ttgatactgt taaaagaata tatgaatata tgaaagaatg tataaacgta agaattgtatc 660
 agtatctaag gacctttcca aattaatttt tattttttagc tctgttagat ttttctcagt 720
 gtaacaaatg tttattccta tgtaattaag ggcgtatttc ctgtacagaa tattcatatt 780
 acctaatgta aaattatatg atacaaaaat ataatactat ttttagccag gcatggtggc 840
 tcatacctgt aatcccaaca ttttgagagg ccacgtttgg agaatcattt gagtccagga 900
 gttgaccagg ctgggcaaca tagtgagacc ttgtccttat taaataaata aataaataaa 960
 taggttgggc actgtggctc atatctgata tcccagcatt ttggggtggc caatgcagga 1020
 ggattgcttg agccccagga gtttgagacc agcctgggca gaatagcaag actccatctc 1080
 tacaaataat aaaatattaa ccaggtgtgg tgggtgacac ctgggggtacc agccacctgg 1140
 gaggctaagg tgggagggtt gctcgaggct gcagtgaact gtgaatgcac cactgcattc 1200
 cagcctaggc catagaacag gatcttgtct ataaataaag aaataagtaa aaatataaat 1260

<210> 513
 <211> 1596
 <212> DNA
 <213> Homo sapiens

<400> 513
 ctccgggggc gcgtcccccg agcttggtac ggctcagccc gtctcccccg aagccggcgc 60
 ccggcgcccc cgccccctcag tccgttgagc ccgcagcccc ccttgtggcc cgcggcagct 120
 ccccgccccg tccggccccg cccgccatgg tccgtccgcg ccgtgccccg taccgctccg 180
 gcgcgggggg cccctctggg ggtcgcgggc gccctccgcg gcccctcgtg gtgcgcgcgc 240
 tccgtcgcgc ctccctggcct gccagcccc gagggccgca gcctccgcgg gatccggggc 300
 cgctcggccc ctcccatgga aggtgctcgg gtcttcgggg cactgggtcc catcggtccc 360
 tccctacctg ggctcaccct cgggggtctg gccgtgagcg agcaccggct cagcaacaag 420
 ctgtctggctt ggagcggcgt cctcgagtgg caggagaagc gcagacccta ctctgactcc 480
 actgcaaagc tgaagcggac cctgccctgc caagcctaag tgaaccaagg cgagaacctg 540
 gagaccgacc agtggccgca cctgacgtgc atgacgtga tccctcagca gctgctgacc 600
 accctggggc ccctgttccg gaactcccag ttggcacagt tccacttcac caacagagac 660
 tgcgactcgc tcaaggggct ctgccgcac atgggcaacg gcttcgcggg ctgcatgctg 720
 ttccccca tctccccctg tgaggtgcgc gtgtcatgc tccgtactc gtccaagaag 780
 aagatcttca tgggcctcat cccctacgac cagagcggct tccgtcagtgc catccggcag 840
 gtcataccca cccgcaagca ggcagtggga cctggtgggt tcaactcagg ccaggtccag 900
 atcgtcaaca acaagtttct ggcattggagt ggtgtcatgg agtggcagga gccaggccct 960
 gagcccaaga gtcgggtcaa gaggtggctg ccattcccacg tctacgtgaa ccagggggag 1020
 atcctgagga ccgagcagtg gccaaaggag ctgtacatgc agctcatccc gcagcagctg 1080
 ctgaccaccc tagtgccgct gttccggaac tccgcctgg tccagttcca cttaccaag 1140
 gacctggaga cactgaagag cctgtgccgg atcatggaca atggcttcgc cggctgcgtg 1200
 cacttttctt acaaagcatc gtgtgagatc cgcgtgctta tgctcctgta ctcttcagag 1260
 aagaaaatct tcattggcct catcccccat gaccagggca actttgtcaa cggcatccgg 1320
 cgtgtcattg ccaaccagca gcaggtcctg cagcgggaacc tggagcagga gcaacagcaa 1380
 cgagggatgg gggggtagtg gttaccccg gctgggcccc tccaggagtc acagatgagg 1440
 ccccgccaga gactggtgac acgcttctga gcaggggccc ctggggactt caactgccca 1500
 gcaacatgga ggatgggtgc ctgaggcctc caaggacggg cccacccctt ctacgtttcc 1560
 ccaataaagc ctttttaaaa cctgccaaaa aaaaaa 1596

<210> 514
 <211> 963
 <212> DNA
 <213> Homo sapiens

<400> 514
 tttttttttt ttgccgctgt caacagacag tttattctat atacaaacac aattttgtac 60
 actgcaatta aatagaatgg aatgagcgt cctccgcatt cctccccgag tgactggttt 120
 ggccgcgcgc ccactccatc cccgagtggg actggaccac ggccctggct gctgccactg 180
 atgttggcgc ctgcacccca cgtccctatg cccgaggcgc aagctctgct ctcccgggga 240
 ccccgaggct ggccgacacg cggggagggc gggggccatgg agaaggcact gcagggagca 300
 ccaggcagag ccgggctgag gccggccggc actaggcgc gagggccac cccaagccgg 360
 cctctcctcc acacctccgc cttgctcaga gacctgcacc atgggacccc actccatcct 420
 caggacgggt cactgcagac ctaccaagac ccctccagaa ccttcgcgg aaccccaccc 480
 cctctccttg ctgaccagct caaacacctc actagcgggt acaagcctcg ggcgcgacct 540
 cacaccaggg ggaggaaagc cgccttcgg gcaaaccaca cgaaaccctg aaagcccccg 600
 acacaggctg ggcagtcaca gaggaaggag gtggctggcc tccccaccc ccaagggtc 660
 gggaagggtca ggcccagcca gcagggtca gaggcggctc agctgtgcgg ctcaggaccc 720
 cacctccgag ggccgctccg ttggggccat ggaggccggg ctaggccgc ctaccgcagc 780
 ccccgaggga gttgtgtcag aagctgcgga gtactcggg gggacactgt cctggggggc 840
 gtgggggagg ccccagcag ggcccagcgg gctggtgga cgcgcctcca ggagggaggc 900
 gctcaggccg gacaggaagg aggcgtctgt gatgatggca gcggtctctg ccatccaacc 960
 cag 963

<210> 515
 <211> 777
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(777)
 <223> n = a,t,c or g

<400> 515
 tttttttttt ttaagggaga acagttttat tagcatcaca ggggtccattt ttccctttcc 60
 atccaagcat ccagagtctg gtgtccttta atcagttggc aggttcaacc tggaggccac 120
 tggagctgcc ggcccccaag tacatgaatg tgcatgat acacagattg tgcaccacgc 180
 ttcccatcgt tgatcacaag tcggtatcca tctccaggc cctcagcctt tgctgtctgc 240
 ttggccacaa ggagtaggtg tcctagaagc tatagagaga gcggaggggac ataggtggct 300
 gctggtcttc ttcttcagcc tggctaatec gaggaatggg cttcttagga atgaccagga 360
 agtgcacagg agcctgaggg gccacatcac ggaacacaa acactgctgg tcctcataga 420
 gaatgtcagc tgggagggtc ttgtccagga tccgggagaa gatggttggg gctgctcccc 480
 caggagtgtc ctgctgggccc ttggccactc cattcccatc agtcacacct gcagtcctc 540
 ggacctgccc cccgcgcacc cccgtggcgg ccacggctct gcgcgcgcgc cgcaaccacg 600
 cagccagcac cacggctgcc gccatcttcc ctgagccgcg ggaacctctc accgggtca 660
 gcaactcggt ccgcggccaa ccgtgggtgg ggactccggg cncggcgaa gcgtgggcgn 720

acgcntnctc acccanngtn naacnnntnc taaatttccc nnnaaagaaa gcagcct

777

<210> 516
 <211> 3206
 <212> DNA
 <213> Homo sapiens

<400> 516

tttttttttc	taggcaactg	ttggcccaaa	aaaaaaattt	attttccttt	caaataaaat	60
gtacaaccaa	aatttaggg	ttggagcagt	agggagaca	ggagatacca	gggagcccat	120
tttacagtag	agatctgcat	ctgaccctc	tatcccatac	ctttgcaaag	gaaggagg	180
gtctacaagc	cagaactttc	agaagagaag	aaaatacatg	ctgtgctgg	gctgtttctg	240
gagcaggtca	tcctttagg	atagaacacc	acctccacc	gatgacatca	gaaccactga	300
ctggttagagc	ccttggaat	catacagtcc	acccatcccc	cgccagacac	atggacacac	360
cgaggctcag	atggggaagg	gtacataccc	tagggcacac	accaaataca	aaagggtgaag	420
tcaggactag	aacacctgag	caacttttagc	aggggactgt	ggccacagge	ctggatgtgc	480
acagtagatc	atgaaataca	ttagtcctag	tgaatgacc	ccgtgcagag	aaatggcttg	540
tggttgtcag	ggagcagcca	cttgccctag	gggtccctg	accctcagtg	aaagggtgact	600
gtgtaaaggc	caaaaactgg	atggtggta	tgaacctcag	gacgtttttt	tttttttagca	660
ccaaatgggtg	gagctctctg	ccagctcagc	ttcttggggc	ctctcaggta	aagggtgatgt	720
ttgaggaccc	cacgcccata	tgaggggtgg	agagaagcca	gcagcactgg	ggtgagcctt	780
ggcctacacc	cttccctctt	acccttcccc	catcttcagt	aaggccaaga	gaggatgtgg	840
ggtggggaag	gccagaatgg	tatcgtgttt	ctgtttctg	ggcagtgggc	tgctcctcc	900
caagcaggac	tgaagggttc	agaatcgctt	ttcctcagge	tgagaggta	tgagcagctc	960
ctgttcccg	aagtccacc	aggccgcat	gtggaacgcc	atgttggtta	agacaacagt	1020
gtactccagg	atggcaaaga	tgggtgacac	tccagcctca	caatacatgt	tgtgccgaaa	1080
gtagacagcc	agcgcgaga	agaaggagat	gaagtgtatg	atgaagagcc	gctgtttcca	1140
gctgtaggac	ttgcgatcct	agggaatggg	ctgtctgac	actctgcagc	ttgctgggta	1200
tgagagcgtg	ggctcccctc	tcagccctaa	ctcctaagg	ctgggcctta	tctcccttgg	1260
ctcccactag	cggtcatgga	agggagcaca	ggcaggggca	gcaagaatga	cgactatgtg	1320
ttcactgccc	tgccctggg	ggagtgtatg	gccgaggagc	agtgtattc	ctgccgcttc	1380
cacttcagtg	ggatggagta	tgaagttac	atggagtcac	ccaccaaccc	cacctccaaa	1440
tactgtgggg	gaaaagaaac	ccatgtacat	gggtggggcg	ctggaattat	gacagaccag	1500
tcctctgaca	ctgttcctaa	ctcactgccg	cctagatgcg	actcctcatt	ctatccccat	1560
ttgcagcctc	catctcttct	attctccagt	ctcccacact	acccaaacac	agtgtctatag	1620
tcctagattc	tgaccaacca	ccctcagttt	gttcccaagc	cccagcccca	accccagcac	1680
ccctctgcca	gggttcccat	tagaactcag	ttcccacctc	accattaccc	gaatcctgag	1740
gacagatgct	cttgattttc	ttctgggctg	ccttgagacc	ccgctagg	atagaccgta	1800
cctcctagtc	tactgtgtgc	ttcttggta	accgccagag	aatgcagggtg	aggagcatgt	1860
gcccagggga	tgaggcaatg	aacacaaatg	aagcattttc	gtggatggct	ggagggaag	1920
aggattggga	gccacattgc	agggagtgcc	cacaccaaga	agtaggaagg	tccgaatgtg	1980
gtaggggcag	gcccgtcccc	tcagggaaca	cttccccact	cctccctcat	ccaggcaccc	2040
actgaagtcc	tcggaggagg	agacataagt	gagcactagc	aacgcgaggt	tctccacgac	2100
attgaggccg	aagttgaggc	ggcagagcgg	gcgatagcag	gaacacgggg	aggtgcagct	2160
gaggtagtgg	ttccagtagg	cgaaggccac	caagaagcga	ggcgccgagt	gcaggccgat	2220
gcagaaacgc	cacacgtagc	gctggggcac	ctccccgcg	atggctgagc	tcaccgagg	2280
caggttaattg	ggcacctaga	gagttgtgac	ctgtctgggc	atctgcctct	gccagccccg	2340
cccatgtgga	gaaccttctc	tccatctgac	aaaatcactc	ttgcctctgc	tccagccctc	2400
ccccttccaa	gaagtctctc	ttcagatgtc	cccatacctc	tcccaaaaga	cctctccttc	2460
caggtcctag	gcccgaagt	ctggattctc	attccccagc	tatcctggga	tttgtgcagc	2520
agcatggtgg	caccttctcc	atctcccccg	cagactggaa	cctgcctgtg	tttggtcaat	2580
gtgtagatgg	gttcagatgc	tcttcaccca	tagctcagag	ctgtgcctcc	actaagaccc	2640
tgggtgagtt	ccaaggcctc	agattcagtc	cagaggacag	ggatgagtc	cagaccatct	2700
gagcttccct	agaacagtgc	tggattcact	gctcagctaa	gatgttctc	agctctctcc	2760
cagcgcact	cactcctcta	ggcaggtgtg	ccaaggtgtg	agaatggcac	ccctgctctg	2820
atcatgatta	acaaagtggg	tgggctgggc	acgatggctc	acatctgtaa	tcccagcaag	2880

aatatggatt	tttaaaagtt	tccaaaactg	tggaaatggc	cagtccattg	cccacacttt	2940
ctgtgcactt	ctgcagacct	ccaacgaggg	ccagcgcagt	gccagagccc	agcaaccag	3000
caagggaatg	aatttgctct	aactatggag	ggacagtctt	cggaaagtga	gttcttaagg	3060
accatcattc	ctttctttca	atgagatgcc	agactgctga	gaaggtagag	aatgctgcag	3120
gcggctcata	gggcagccca	caggtaggcc	tggggcaaga	ctagccatgg	ggcttcacag	3180
cctccacaaa	aaaggagatg	gattcc				3206

<210> 517
 <211> 1731
 <212> DNA
 <213> Homo sapiens

<400> 517						
atattgatct	cctggagatt	cgaaatggac	caagatccca	tgaatcattc	caagaaatgg	60
atcttaatga	tgactggaaa	ctctctaaag	atgaggttaa	agcatattta	aagaaggagt	120
ttgaaaaaca	tgggtcggtg	gtgaatgaaa	gtcatcatga	tgctttggtg	gaggatattt	180
ttgataaaga	agatgaagac	aaagatgggt	ttatatctgc	cagagaattt	acatataaac	240
acgatgagtt	atagagatac	atctaccctt	ttaatatagc	actcatcttt	caagagaggg	300
cagtcacatt	ttaaagaacat	tttattttta	tacaatgttc	tttcttgctt	tgttttttat	360
ttttatatat	tttttctgac	tcctatttaa	agaaccctt	aggttttctaa	gtaccctatt	420
ctttctgata	agttattggg	aagaaaaagc	taattggctt	ttgaatagaa	gacttctgga	480
caatttttca	ctttcacaga	tatgaagctt	tgttttactt	tctcacttat	aaatttaaaa	540
tggtgcaact	gggaatatac	cacgacatga	gaccaggtta	tagcacaaat	tagcacccta	600
tattttctgct	tcctcttatt	ttctccaagt	tagaggtcaa	catttgaaaa	gccttttgca	660
atagcccaag	gcttgctatt	ttcatgttat	aatgaaatag	tttatgtgta	actggctctg	720
agtctctgct	tgaggaccag	aggaaaatgg	ttgttggacc	tgacttggtt	atggctactg	780
ctttactaag	gagatgtgca	atgctgaagt	tagaaacaag	gttaatagcc	aggcatgggtg	840
gctcatgcct	gtaatcccag	cactttggga	ggctgaggcg	ggcggatcac	ctgaggttgg	900
gagttcgaga	ccagcctgac	caacacggag	aaaccctatc	tctactaaaa	atacaaaagt	960
agccggggcgt	ggtgatgcgt	gcctgtaatc	ccagctaccc	aggaaggctg	aggcggcaga	1020
atcacttgaa	cccggaggcg	gaggttgcgg	taagccgaga	tcacctccag	cctggacact	1080
ctgtctcgaa	aaaaagaaaa	gaaacacggt	taataacata	taaatatgta	tgcatgaga	1140
catgctacct	aggacttaag	ctgatgaagc	ttggctccta	gtgattggtg	gcctattatg	1200
ataaatagac	caaatcattt	atgtgtgagt	ttctttgtaa	taaaatgtat	caatatgtta	1260
tagatgaggt	agaaagtatt	atattatatt	aatatttact	tcttaaggct	agcgggaatat	1320
ccttcctggt	tctttaatgg	gtagtctata	gtatattata	ctacaataac	attgtatcat	1380
aagataaagt	agtaaacccag	tctacatttt	cccatttctg	tctcatcaaa	aactgaagtt	1440
agctgggtgt	ggtggctcat	gcctgtaatc	ccagcacttt	ggggggccaag	gaggggtggat	1500
cacttgagat	caggagtcca	agaccagcct	ggccaacatg	gtgaaacctt	gtctctacta	1560
aaaatacaaa	aattagccag	gcgtgggtgg	gcacacctgt	agtcacagct	actcgggagg	1620
ctgagacagg	agatttgctt	gaacccggga	ggcggagggt	gcagtgagcc	aagattgtgc	1680
cactgcactc	cagcctgggt	gacagagcaa	gactccatct	caaaaaaaaa	a	1731

<210> 518
 <211> 1327
 <212> DNA
 <213> Homo sapiens

<400> 518
 cccacgcgtc cgcggacgcg tggggaaga aggcgccgca gctaagccca ggtctctcct 60
 ccgcaggttc cagctccttt cctggagcgt gtgtgggggc aacaaggacc catgggttca 120
 ggaattgatg agctgtcttg atctcaaaga atgtggacat gcttactcgg ggattgtggc 180
 ccaccagaag catttacttc ctaccagccc cccaatttct caggcctcag agggggcacc 240
 ttcagatata cacacccctg ccagatgct cctgtccacc ttgcagtcca ctacgcgcc 300
 caccctccca gtaggatcac tgtcctcgga caaagagctc actcgtccca atgaaaccac 360
 cattcacact gcggggccaca gtctggcagc tgggcctgag gctggggaga accagaagca 420
 gcgggaaaaa aatgctggtc ccacagccag gacatcagcc acagtgccgg tcctgtgcct 480
 cctggccatc atcttcatcc tcaccgcagc cctttcctat gtgctgtgca agaggaggag 540
 ggggcagtc aacgcagtc ctccagatct gccggttcat tatatacctg tggcacctga 600
 ctctaatacc tgagccaaga atggaagctt gtgaggagac ggactctatg ttgcccaggc 660
 tgttatggaa ctctgagtc aagtgatcct ccacacctgg cctctgaagg tgcgaggatt 720
 ataggcgtca cctaccacat ccagcctaca cgtatttggt aatatctaac ataggactaa 780
 ccagccactg cctctcttta ggccctcat ttaaaaacgg ttatactata aaatctgctt 840
 ttcacactgg gtgataataa cttggacaaa ttctatgtgt attttgtttt gttttgcttt 900
 gctttgtttt gagacggagt ctgctctgt catccaggct ggagtgcagt ggcattgact 960
 cggctcactg caaccccat ctcccagggt caagcgattc tccctggcct cctcctgagt 1020
 aagctgggac tacagggtgt caccaccaca cccggctaatt tttttgtatt tttagtagag 1080
 atggggcgct gagggtgact caaggtggac aggagcatct gggcaggggt gtggatatct 1140
 gaagatgccc cctctgaggc ctgagaaatt ggggggctgg taggaagtaa atgcttctgg 1200
 tgggccacaa tccccagta agcatgtcca cattctttga gatcaagaca gctcatcaat 1260
 tctgaaccc atgggtcctt gttgcctcca cacacgctcc aggaaggag ctggaacctg 1320
 cggagga 1327

<210> 519
 <211> 1002
 <212> DNA
 <213> Homo sapiens

<400> 519
 ttttcaacct taaaaaattt taatggaatt ttcttctttt ttttttttct ttaaataaca 60
 atttgacaaa aggggtgaaa aatcctaaac aaggatattga ggccagtgtc caggctgcat 120
 tcagttcaca aaactgtcct caggacgttg catggaactg gaaatgtgta taattacaga 180
 agaaaacagg gaggacttag tgcagagagg agacgagtgt ggacgggcaa cagcatcctt 240
 agtctttcat atttatataat ggtatatgta ttttctatat atataattat atattttaca 300
 tccaggtatc ccagtcattc gtaccatttc ccaggagagac atgggtgctt ccaaggcgag 360
 acaggaaaag gttaggcagg gaaggggagc cgacgggtgca ggctggggct tggctcacag 420
 aagctgcagg agcttcagcg actgtaagag ggccccgggc tccgcagacg ccaggtaact 480
 gcagcaaagc cagtcctcca gctccacgcc ccgcctgcga tccaccgcct tctccgcaaa 540
 cttcatcatc atcaggggcc gcttcatgtc gatccagttg tgcagcgtgc cgcacagcgc 600
 ctctccgag gtgcccggct gctgcaccag ctgcgcgcca ggccccaca gcaggcactg 660
 cagcacgcgc ttggcctcgc cgatgcggat acgcttgatg gggctcggcct ccagtagcag 720
 atgtgccagc tgcctcagcg cgggtgagta gagggacagc gcgggcagcg gcggcaggctc 780
 ctctgcccgg tagtctctct cccgcagctg ggcgcgcacc tcgaacgggt tgggttggtg 840
 cagcagctcg tagatgagga tgcctgtctg gaactcatcg aacttgcggt actgggaagc 900
 agacacgata tcgggggcca gccgggctcg gctctcttct tgcctgcagg ttgggggtgct 960
 gcccggttc tgcctggcct tcaaaaagtt gctgatgatg ag 1002

<210> 520
 <211> 2966
 <212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(2966)

<223> n = a,t,c or g

<400> 520

gaaaagagga	cttattgttg	tcattggcca	tgagatgatt	ggaactcaaa	ttgttactga	60
gaggggggtg	gctctgctgg	aaagtggaa	ggaaaaagtg	ctgctaattg	atagccggcc	120
atttgtggaa	tacaatacat	cccacatttt	ggaagccatt	aatatcaact	gctccaagct	180
tatgaagcga	aggttgcaac	aggacaaagt	gttaattaca	gagctcatcc	agcattcagc	240
gaaacataag	gttgacattg	attgcagtca	gaagggtgta	gtttacgac	aaagctccca	300
agatgttgcc	tctctctctt	cagactgttt	tctcactgta	cttctgggta	aactggagaa	360
gagcttcaac	tctgttcacc	tgcttgccag	tggttttgct	gagttctctc	gttgtttccc	420
tggtctctgt	gaaggaaaat	ccactctagt	ccctacctgc	atttctcagc	cttgcttacc	480
tggtgccaac	attggggcaa	cccgaattct	tcccaatctt	tatcttggct	gccagcgaga	540
tgtcctcaac	aaggagctga	tgacgcagaa	tggttattgt	tatgtgttaa	atgccagcaa	600
tacctgtcca	aagcctgact	ttatccccga	gtctcatttc	ctgctgtgtc	ctgtgaatga	660
cagcttttgt	gagaaaaatt	tgccgtgggt	ggacaaatca	gtagatttca	ttgagaaagc	720
aaaagcctcc	aatggatgtg	ttctagtcca	ctgttttagct	gggatctccc	gctccgcac	780
catcgctatc	gcctacatca	tgaagaggat	ggacatgtct	ttagatgaag	cttacagatt	840
tgtgaaagaa	aaaagacctc	ctatatctcc	aaacttcaat	tttctgggcc	aactcctgga	900
ctatgagaag	aagattaaga	accagactgg	agcatcaggg	ccaaagagca	aactcaagct	960
gctgcacctg	gagaagccaa	atgaacctgt	ccctgctgtc	tcagaggggtg	gacagaaaag	1020
cgagacgccc	ctcagtcacc	cctgtgccga	ctctgctacc	tcagaggcag	caggacaaaag	1080
gcccgtgcat	cccgcacagc	tgcccagcgt	gcccagcgtg	cagccgtcgc	tgtagagga	1140
cagcccgctg	gtacaggcgc	tcagtggtgt	gcacctgtcc	gcagacaggc	tggaagacag	1200
caataagctc	aagcgttcct	tctctctgga	tatcaaatca	gtttcatatt	cagccagcat	1260
ggcagcatcc	ttacatggct	tctcctcatc	agaagatgct	ttggaatact	acaaaaccttc	1320
cactactctg	gatgggacca	acaagctatg	ccagttctcc	cctgttcagg	aactatcgga	1380
gcagactccc	gaaaccagtc	ctgataagga	ggaagccagc	atccccaa	agctgcagac	1440
cgccaggcct	tcagacagcc	agagcaagcg	attgcattcg	gtcagaacca	gcagcagtg	1500
caccgcccag	aggtcccttt	tatctccact	gcacgaaagt	gggagcgtgg	aggacaatta	1560
ccaccaccag	ttccttttctg	gcctttccac	cagccagcag	cacctcacga	agtctgtctg	1620
cctgggcctt	aagggtggc	actcgatat	cttggccccc	cagacctcta	ccccttccct	1680
gaccagcagc	tggtattttg	ccacagagtc	ctcacacttc	tactctgcct	cagccatcta	1740
cggaggcag	gccagttact	ctgcctacag	ctgcagccag	ctgcccactt	gcggagacca	1800
agtctattct	gtgcgcaggc	ggcagaagcc	aagtgcagca	gctgactcgc	ggcggagctg	1860
gcataagag	agcccttttg	aaaagcagtt	taaagcagca	agctgccaaa	tggaatttgg	1920
agagagcatc	atgtcagaga	acaggtcacg	ggaagagctg	gggaaagtgg	gcagtcagtc	1980
tagcttttctg	ggcagcatgg	aatcatttga	ggtctcctga	gaagaaagac	acttgtgact	2040
tctatagaca	atthtttttt	cttgttcaca	aaaaaatttc	ctgtaaatct	gaaatatata	2100
tatgtacata	catatatatt	tttggaaaat	ggagctatgg	tgtaaaagca	acaggtggat	2160
caaccagtt	gttactctct	taacatctgc	atttgagaga	tcagctaata	cttctctcaa	2220
caaaaatgga	agggcagatg	ctagaatccc	ccctagacgg	aggaaaacca	ttttattcag	2280
tgaattacac	atcctcttgt	tcttaaaaaa	gcaagtgtct	ttggtgttgg	aggacaaaat	2340
cccctaccat	tttcacgttg	tgctactaag	agatctcaaa	tattagtctt	tgtccggacc	2400
cttccatagt	acaccttagc	gctgagactg	agccagcttg	ggggtcaggt	aggtagaccc	2460
tgtaggggac	agagcctagt	ggtaaatcca	agagaaatga	tcctatccaa	agctgattca	2520
caaacccacg	ctcacctgac	agccgaggga	cacgagcatc	actctgctgg	acggaccatt	2580
aggggccttg	ccaaggtcta	cccttagagca	aaccagctac	ctcagacagg	aaagtcgggg	2640
ctttgaccac	taccatatct	ggtagcccat	tttctaggca	ttgtgaatag	gtaggtagct	2700
agtcacactt	ttcagaccaa	ttcaaactgt	ctatgcacaa	aattcccgtg	ggcctagatg	2760
gagataatth	ttttttcttc	tcagctttat	gaagagaagg	gaaactgtct	aggattcagc	2820
tgaaccacca	ggaacctggc	aacatcacga	tttaagctaa	gggtgggagg	ctaacgagtc	2880
tacctccctc	tttgtaaatc	aaagaattgt	ttnaaatggg	attgtcaatc	ctttaaataa	2940
agatgaactt	ggtttcaaaa	aaaaaa				2966

<210> 521
 <211> 1041
 <212> DNA
 <213> Homo sapiens

<400> 521
 tggggcaagg atttcatgag catcctcctc taaacgcgtg tcaagacaaa agatgcttca 60
 gcttttgaaa cttgttctcc tgtgcggcgt gctcactggg acctcagagt ctcttcttga 120
 caatcttggc aatgacctaa gcaatgtcgt ggataagctg gaacctgttc ttcacgaggg 180
 acttgagaca gttgacaata ctcttaaagg catccttgag aaactgaagg tcgacctagg 240
 agtgcttcag aaatccagt cttggcaact ggccaagcag aaggcccagg aagctgagaa 300
 attgtctgaac aatgtcattt ctaagctgct tccaactaac acggacattt ttgggttgaa 360
 aatcagcaac tccctcatcc tggatgtcaa agctgaaccg atcgatgatg gcaaaggcct 420
 taacctgagc ttccctgtca ccgcgaatgt cactgaggcc gggcccatca ttgaccagat 480
 tatcaacact gagagcctcc ttggacctcc tgaccgcagt cacaattgaa actgatcccc 540
 agacacacca tcctgttgcc ggactgggag aatgcgccag agaccacaacc agcatctcac 600
 tttgcttgct ggacaaacac agccaaatca tcaacaagtt cgtgaatagc gtgatcaaca 660
 cgctgaaaag cactgtatcc tcctgtctgc agaaggagat atgtccactg atccgcactc 720
 tcatccactc cctggatgtg aatgtcattc agcaggctcg cgataatcct cagcacaaaa 780
 cccagctgca aaccctcatc tgaagaggac gaatgaggag gaccactgtg gtgcatgctg 840
 attggttccc agtggcttgc cccaccccct tatagcatct cctccagga agctgctgcc 900
 accacctaac cagcgtgaaa gcctgagtcc caccagaagg accttcccag atacccttc 960
 tcctcacagt cagaacagca gcctctacac atgttgtcct gcccctggca ataaaggccc 1020
 atttctgcac caaaaaaaaa a 1041

<210> 522
 <211> 1295
 <212> DNA
 <213> Homo sapiens

<400> 522
 tttttttttt ttaaggttgt tgaaataat ttttatttaa cagatataaa aaaaattctt 60
 aacattttaca aattgtacaa agattggtag cttttatatt tttttaaaaa tgctatacta 120
 agagaaaaaa caaaagacca caacaatatt ccaaattata ggttgagaga atgtgactat 180
 gaagaaagta ttctaaccac taaaaaaaaa tattgaaacc acttttgatt gaagcaaaat 240
 gaataatgct agatttaaaa acagtgtgaa atcacacttt ggtctgtaaa catatttagc 300
 tttgcttttc attcagatgt atacataaac ttatttaaaa tgtcatttaa gtgaaccatt 360
 ccaaggcata ataaaaaaaa aggtagcaaa tgaataata agcattttatt ttggtagttc 420
 ttcaataatg atgcgagaaa ctgaattcca tccagtagaa gcattctcct ttgggtaate 480
 tgaacagta ccaaccaga tagcaacatc cactaatcca gcaccaattc cttcacaagg 540
 tccttccaca gaagaagtgc gatgaatatt aattgttgaa ttcatttcag ggcttccttg 600
 gtccaaataa attatagctt caatgggaag aggtcctgaa cattcagctc cattgaatgt 660
 gaaataccaa cgctgacagc atgcatttct gcatttttagc cgaagtgagc cactgaacaa 720
 aactcttaga gcaactattg aacgcattct tgtaaagtga cactccgcaa ttttcccaag 780
 atctatgcc aatttcaatg aactccatga acactgcttg tagttgggtg tccaggactc 840
 ctcaaagctt tccctcagac attccccctt ttctccttgg aatccatccc gacctgggat 900
 cccaggtgta cccggaatgc cattggcccc agggctcccg tctcgaccag gcactcctgc 960
 tggccttgt aagcacattc cattatacag tcccaccacc tccctctgcc ggagctgcgc 1020
 cttttgcttc cccttgggga tctcagaggg gctcgacggc gcgggcagct gcagcagagc 1080

gagcagcagg	aggccgcgga	gcccgtgcgg	ggaggcggcg	gggccctggg	gtcgcgatggc	1140
tcccggctgc	cgggcagcgc	ggagctggag	gcgaggagaga	cggaggagag	gaacgtggtc	1200
agcgtctggc	tccgccgcgc	tccgaggccg	cgcgaggctg	catcaatgcg	cctttcacc	1260
gagcgcctct	ctccctccct	taattcctcc	cgccc			1295

<210> 523
 <211> 2014
 <212> DNA
 <213> Homo sapiens

<400> 523	
tttttttttt	60
acgcaacttt	120
agctgaactt	180
tttcagacaa	240
cctcacagcc	300
gcctcttttc	360
taatctggga	420
agggaaaaga	480
tcagggataa	540
ctacagaggg	600
catacttctg	660
gggtccttct	720
tatgacaaac	780
caataataga	840
tcacaagcaa	900
gctcaggctc	960
atggaaggca	1020
atcccattct	1080
tctaggaagt	1140
tcaaaatcct	1200
cccaatcgga	1260
gtgtgcata	1320
ggagggtccac	1380
caccacctgc	1440
ttgactccag	1500
cacagagcat	1560
agcagcatcc	1620
caggccaggg	1680
catgtggaga	1740
gtcaatgctg	1800
tgttttcaac	1860
acgccaatc	1920
tctcaccaac	1980
cctcgtgcc	2014

<210> 524
 <211> 2151
 <212> DNA
 <213> Homo sapiens

<220>

<221> misc_feature
 <222> (1)...(2151)
 <223> n = a,t,c or g

<400> 524

gccccgaggta	gtaaaccctgg	atccttttaaa	acggcccccc	cttttttttt	tttttaattgg	60
caaatagatt	taatgcagag	tgtcaacttc	aattgattga	tagtggctgc	ctagagtgc	120
gtgttgagta	ggtttctgag	gatgcaccct	ggcttgaaga	gaaagactgg	caggattaac	180
aatatctaaa	atctcacttg	taggagaaac	cacaggcacc	agagctgcca	ctggtgctgg	240
caccagctcc	accaaggcca	gcgaagagcc	caaagtgtag	agtggcggtc	aggctggcac	300
cagcactgaa	gccaccactg	gtgctggcac	tggcactggc	actgttattg	gtactgggtac	360
tggcaccagt	gctggcactg	ccactctctt	gggctttggc	tttagcttct	gctcccgct	420
ggatccgggc	tttggcccag	ggtccgatat	cagcttcgtc	ccagttgcag	ggcccggcag	480
cattctccga	gccgagccca	atgccatttc	gagctttaat	ctcgcccta	agccttggct	540
tccaagggtga	gcctcagctt	gcagccttca	aaatccgctt	ccattcgccc	cttnctttcc	600
cgggggggga	ctgagctgcc	cattcccttt	ggatccctcc	ttttgtacct	ttgcaggcaa	660
acttgaagga	ctttcatctt	tgctggtcct	catagtaaga	gcgcaggccc	ccagaagaac	720
tcatattcaa	ggggaattgc	tatgggggac	tctggcatag	tcccagggtac	ttctgcttca	780
caaacctcat	cagtgatgag	cttccttcac	gtcccccaag	agttgaatga	tgtatcccca	840
ggcgcagccc	caaacttggc	gcagcacctc	ccagatgaca	gcctcacttg	gaccgatttc	900
ggtcattga	agatgatgct	aagaagcacc	atgagcagac	ccagcttggg	tgagtcctta	960
gtcgttccca	gtatgcctgc	atcagtgggc	tctaagggtc	tgagaagaat	gtacaagtgg	1020
tcattcttat	caatttcctt	caattgaatc	ccaaatacct	tcttccaagg	aatagcctgc	1080
tcgttcaaat	gatttcgggg	tacacatcag	tgtattcttt	gatgatgtcc	ttcagcatgt	1140
tccgagcgct	tgatgggaat	cttcgtctgg	tcttttagcca	aaaggactct	caccaaattc	1200
atttgccttc	ccttgcaaaa	gggccacatc	cccaagntgg	tgggtgcttca	ggctcttggg	1260
atgaactgga	acttggaac	tctaacggcg	aagccccctt	gcctacgggc	tttaagggtga	1320
tctccaaggg	gagagcaaag	gctctccggg	cccaaagcaa	gccaaaccgag	tccttgatgc	1380
cctgcggggc	caaaaaggcta	tgggaccctt	tgaagccctg	cggggccattg	aggccattag	1440
agcctttgag	acccttcggc	cacctgtggt	tccagaagcc	tgactctgat	cactgctgcc	1500
atcctcttcc	ccatccagat	gcttcacctt	tgggcttttc	ttggctttga	ccttgggccc	1560
agtatcctga	ttctcctgag	actgggcagc	tgcactctca	ggctcagggt	catctgctgg	1620
ggcctgagag	ggtgcagcct	cagtctcctg	agcctttgta	ttgaccttcg	tatcagccac	1680
atggctgacc	tttttggtct	cagtggcagg	cattgtcaca	gcctgcgggt	cagcattctg	1740
tttcttggtg	tcagctgcta	gactcttggt	ttcagctgcc	agaacctggg	tatcagtcag	1800
ctgagtagta	gatgaggcct	gggtggcagg	tgcctccga	gcctctgggg	tctttgagac	1860
ctctgtggcc	tttgagacct	cagaggcttt	tgagaccttc	acatcctctg	agacctccag	1920
tgcttttgag	gccttcgggtg	tctctgggac	ctccacattc	tgggtcactg	tcaacagagt	1980
ctgcatcatc	gagctactgt	ccttttctga	agcttcagcc	tgggaagcgag	ttagacctgc	2040
accactctcg	cttgtgtcag	acatgtctca	atttggcctg	gcaagagctg	agcctcgtcc	2100
tctacaatt	cccagtgctg	tccactcact	ccaagcccct	ccgaagctcg	g	2151

<210> 525
 <211> 1869
 <212> DNA
 <213> Homo sapiens

<400> 525

gcgcggcctc	ctgtctgcac	cggcagcacc	atgtcgtctca	cggctcgtcag	catggcgtgc	60
gttgggttct	tcttgctgca	gggggcctgg	ccactcatgg	gtgggtcagga	caaacccttc	120
ctgtctgccc	ggcccagcac	tgtggtgcct	cgaggaggac	acgtggctct	tcagtgtcac	180
tatcgtcgtg	ggtttaacaa	tttcatgctg	tacaaagaag	acagaagcca	cgttcccatc	240

ttccacggca	gaatattcca	ggagagcttc	atcatgggce	ctgtgacccc	agcacatgca	300
gggacctaca	gatgtcgggg	ttcacgcccc	cactccctca	ctgggtgggc	ggcaccagc	360
aacccctgg	tgatcatggg	cacaggaac	cacagaaac	cttccctcct	ggccaccca	420
gggcccctgc	tgaatcagg	agagacagtc	atcctgcaat	gttggtcaga	tatcatgttt	480
gagcacttct	ttctgcacaa	agaggggac	tctaaggacc	cctcacgcct	cgttggacag	540
atccatgatg	gggtctccaa	ggccaatttc	tccatcggtc	ccatgatgct	tgcccttgca	600
gggacctaca	gatgtacgg	ttctgttact	cacacccct	atcagttgtc	agctcccagt	660
gatccctgg	acatcgtgg	cacaggtcca	tatgagaaac	cttctctctc	agcccagccg	720
ggccccaagg	ttcaggcagg	agagagcgtg	accttgcct	gtagctccc	gagctccat	780
gacatgtacc	atctatccag	ggagggggga	gcccataaac	gtaggtccc	tgagtgccg	840
aaggtcaaca	gaacattcca	ggcagatttc	cctctgggccc	ctgccaccca	cggagggacc	900
tacagatgct	tcggctcttt	ccgtcactct	ccctacgagt	ggtcagaccc	gagtgaccca	960
ctgcttgttt	ctgtcacagg	aaacccttca	agtagttggc	cttcaccac	agaaccaagc	1020
tccaaatctg	gtaacctcag	acacctgcac	attctgattg	ggacctcagt	ggtcaaaatt	1080
cctttcacca	tctcctctt	ctttctcctt	catcgctgg	gctccaacaa	aaaaaatgc	1140
tgctgtaatg	gaccaagagc	ctgcagggaa	cagaagtga	cagcgaggat	tctgatgaac	1200
aagaccatca	ggaggtgtca	taccataat	tggaacactg	tgttttcaca	cagagaaaaa	1260
tactcgccc	ttctcagagg	cccaagacac	ccccaacaga	taccagcatg	tacatagaac	1320
ttccaaatgc	tgagcccaga	tccaaagtgt	tcttctgtcc	acgagcacca	cagtcaggcc	1380
ttgaggggat	cttctaggga	gacaacagcc	ctgtctcaaa	accgagttgc	cagctcccat	1440
gtaccagcag	ctggaatctg	aaggcgtgag	tcttcatctt	agggcatcgc	tctcctcac	1500
gccacaaatc	tggtgcctct	ctcttgcctt	caaagtctta	ggtcccccact	gcctgctgga	1560
aagaaaaacac	actcctttgc	ttagcccaca	gttctccatt	tcacttgacc	cctgcccacc	1620
tctccaaacct	aactggcctt	cttcttagtc	tacttgaggc	tgcaatcaca	ctgaggaact	1680
cacaattcca	aacatacaag	aggctccctc	ttgacgtggc	acttaccac	gtgctgttcc	1740
accttccctc	atgctgtttc	acctttcttc	ggactatctt	ccagccttct	gtcagcagtg	1800
aaacttataa	aattttttgt	gatttcaatg	tagctgtctc	ctcttcaaat	aaacatgtct	1860
gcctccaa						1869

<210> 526
 <211> 6655
 <212> DNA
 <213> Homo sapiens

<400> 526						
ataaccattt	attagtcgaa	agtgttttta	agcacagtea	gggtgtaaac	agtgcagcat	60
tctgtctccc	ctccgtggga	gcagcgtctc	cttttcaatt	catgtgacta	cagaaggcac	120
tggtgtaact	gtgctgtct	gaggtgtgga	aaccaggaga	cgctgctccc	acagtcaggg	180
tgtaaacagt	gcagcattcc	tgctcccctc	cgtgggagca	gcgtctcctt	ttcaattcat	240
gtgactacag	aaggcacttg	gtgaactgtg	cgtgtctgag	gtgtggaaac	caggagaggg	300
ggaaagaatt	ctcaaaggcc	tgacgtgaga	agttggaaag	gtttgcagg	tagggaatga	360
attgggagtg	ggggccggcg	gcaccattt	cgtgacttt	ctccccattt	catgtaaac	420
gaattgccag	ggaccgggta	ccgtggatat	gtttttctaa	aaactcagt	tctgcacaat	480
ccattgatag	aactggagga	tgtgtctgtg	tttctgttg	ggtttttctc	atctcttaca	540
ccatacaaac	ttcaattttt	accttgaata	caggggtagt	aggggtggg	gtgggtggg	600
tggttgagac	aggggtctctg	ttgccaggc	tgagtgcaa	tgatgcaatt	atagctcatt	660
gcagcctcga	agtctggggc	tggagcgttc	ttcttggtc	agcctcccta	gtagctggga	720
ccacaggtgt	gtaccaccac	gccagctta	tttttaaatt	cttgtataga	tgaggtttta	780
ctacgttgcc	caggctggag	ggtggtgggt	tttatattcc	ttgtgtgagg	ggtgtctgtg	840
atatttgga	tttgagaatg	gatttagaca	atgctaagta	cagtctgctg	ggttttgtct	900
tggtctgggt	tggtgttggt	ttttttttgt	ttgtttgttt	tggttttttg	ttttcttgcc	960
ctgggtgcaa	actgtagaaa	gttgccttatt	cactggcctt	ggttccattg	aagtctgcgt	1020
ctcgagtgtc	cgtttctctc	tcagaacct	ctgcatttct	aataactcta	cgctctccag	1080
accttctaga	aggaacgaaa	gaggtctcgt	ttctctgcct	gagcttgctc	ttgagtgctg	1140
tcacctcgcg	gcccattggc	tcgttgctct	ccgtggcctc	atccagctcc	cgctgcagct	1200
tctctcggtt	ggcggttgatg	cgctgggact	cctcctctgc	ctcctccagc	tgctcttga	1260

gctgcttgac	cctggcattg	cctttctctg	cctgctcctt	gtactgctcg	gccatcttgc	1320
gctcgtectc	cacctgcage	aagatttctt	tcagcttctt	gtctttctgc	ttcagcgact	1380
tggtggccgc	ctgtttctct	ctggcctcct	gctcgacctg	ctcctctagc	tgtgcaatct	1440
tggcctccag	cgccgcgatg	gtggatttga	acttggactt	gacggccccc	tccatctcgt	1500
ggagcttgct	ccggagctcc	ttgttctgcc	gctcgagctg	ctgccgggca	ctctcattct	1560
tctgggcctg	gctgcgctct	gtggccagct	cgttgctgag	ctgctcggcc	tgtgtgttgg	1620
ctttgcccag	ccggtcgctc	atggcctcca	tgttgccctg	ctcctcctcc	agctcctcct	1680
ccagctgggc	gatccggggc	tccaggcggc	gcttctcgtc	ctggagtgcg	ttccttcccc	1740
acaggctact	ggcccagctc	ctctgccagt	tccctcctct	tcgaggtccg	ctttgtttgc	1800
gacctctctc	agcggcgggc	aggtccttct	tgtagctgca	tgaggtcgtg	cttccaagct	1860
cttggtcttc	ttctcattct	ctttgggctg	tggcaaaa	tctcatctct	ggaggcacgg	1920
ggcatcttcc	agctctcttt	gaaagtccct	catctgagcc	tgcagtttgc	gtagctgctt	1980
gatggctttc	cctccccctc	ctttgatggc	agagtccggc	taaagatcca	aggttcttac	2040
agggtcccat	cccagcttta	tttttctgct	agctgccagg	gcacgttgct	ttcgctcgtc	2100
ttccagttcc	gtctcatact	cgtgaagctg	tctctgcaga	tgcctcctcg	ctcgctcctca	2160
ttctgctcgg	ttcgggcttg	gagataccct	ttcgaaactg	gcccctgaag	gcgcctgcat	2220
gttgacttcc	agccgcagtt	tgggcgtccc	tccgtgggct	tgaagctcgc	gtccttccaa	2280
gctcttccaa	ctggcgtctt	catctcctcc	aatctggggt	ctcccagggc	ccggcttgga	2340
cttctcccag	atcatggggc	agttcttgcc	caacgtcaat	ccttggaagc	tgacccaggt	2400
cttcccattt	ctggctttga	gcattttgtt	ggctccgctc	agttcctctt	tggettccaa	2460
ggcctcttca	agggcccgag	cccagggaca	gggccttggt	ttccttctcc	ctggcttctg	2520
cctcaactct	gtccctctca	tccgcgtatt	tgggaagagat	gtttttctcc	tcggctaaca	2580
actgatcaaa	tttctctctg	ttcttttcca	ggttggacac	cagttgccgc	tggttgtcca	2640
aatcaacaac	caggtcgtcc	agctcctgct	gaagcctggt	cttggtcttt	tccagtttat	2700
catacgccgc	cgcttctctc	tcgtactgct	gggtgaggtt	ctcgatctcc	ttctggaacc	2760
tcttcttccc	ctcttccaga	gcttccacgg	tgtctggcaa	gtcctgcagc	ttcttctctg	2820
agtcggagag	ctggatgttg	agagtggaga	tgtggcgtc	caggttctgc	ttggcctcca	2880
tctcctcgtc	cagctggtct	tgcaggctgt	tccgctcctc	ctccagctag	gcgcagcgta	2940
cgtagacacg	ttgagcttct	gccgggatcc	ttcttgaagc	agctcctggg	tgtcctggta	3000
gctgggaact	gagggacgcc	acgtccttgg	ccagcttaat	ggccttcccc	tcggcctcgt	3060
taagcatccc	ctgtgacgct	ctcaacttca	ttctgcaggc	ttgtggactt	tgtcattgag	3120
ctccgcccgc	gcccgcctcc	categctgca	cttgagctgc	agctcctgca	cctgcgcctg	3180
cagcttcttc	attctatggt	ccacctcctg	cttgggcctg	gcccaggacc	cgcacctccc	3240
cggccagggt	ctgtgttctc	tttctccagc	gtctgcttat	tcttgtctag	gttcgccttg	3300
gccctctttt	gactgctcaa	gctgctctgt	gaggctctgc	accgcctgtg	cgtgtttctg	3360
cctcatctcc	tggacctgag	cctcatggga	ccgcgtctct	tcattcaggg	cccctcttca	3420
gcaccgtcac	ctcctgctcc	ctcttggccc	tgagctcctg	ctgagtggtc	gtgctgtcca	3480
gtgtgtcttc	cagctctgtc	tttagggcct	ccagctcctc	gccgaggtct	cgcttctgct	3540
tttcagcctt	gttctctggc	gcccgcctct	agtccaggct	ctcctggagg	tctgagatgt	3600
ggccttccag	ctcccggatc	ttcttcaggg	cattgttctt	ctgagcgatt	tcacgtcaa	3660
gcttggccag	ggccgcctgc	agctcctcct	ccttcttggc	cagctgcatt	ttgagctctg	3720
cgatctgcgc	ctggaggcca	gcgatctgct	cgtggaagtc	gctggcatca	ccctccagct	3780
tccgtttcag	cttctccagc	tctgtctggc	tcttctcttc	cttcttttag	cgcacttcca	3840
gttctgaaat	catagattca	tgttgttttt	tcagcttggg	aagattcttg	gccttttctt	3900
cctcttctgc	aagatttgtc	gttaagtca	taatcctctc	ctcaaggagt	tttctgtctt	3960
ttgatagttt	attgttctga	tcacccatga	ccaggatctc	atcctccagt	ttcttgatct	4020
tggcctcagc	cgtgaccttc	tcaagttgca	gcttctgcct	ggcagcttcc	tctcttccca	4080
gctgttcttc	aaggtccagc	atctgctggg	ccatcttctt	ccttccagcc	tgtagctgct	4140
ggccctctgc	ttcctcctcc	tccaggcggg	cctccatctc	atgcagtatc	tctccagct	4200
cctgcttctt	ggccgcccag	cgcacccgca	tctcctcagc	ctctgcatac	agctctgtct	4260
ctgcctgcag	ctgttctctg	agcaggttct	tctcctcggt	cagctgcgag	tgttctgttt	4320
ccagctcctt	aagctcatte	tctgccttct	gctgcgcgtc	cttggtcttc	tgcagttcat	4380
cctccttggc	ctgcattctc	tactcctgcc	gtgtcacctg	cagcagtggc	tacacttttg	4440
tgaaggcct	gcaccactgc	cagttccgca	gcttgatgta	tgcggcgag	ttcctctgaa	4500
tcaccttcat	ggcggtcagc	tgtgctgccc	tcttggcaaa	agccttctct	gccaagtagc	4560
cacgacacat	cgctgggaag	gcatgatga	catcggtgat	cttcaaatct	cgtcctcct	4620
ctaggctggc	caggacgcca	gttcggaaga	agattttgct	ctgcccatac	ctgtataagt	4680
tgggtcaag	ttccagggtc	ttgatcatga	gaatgcaggc	ctgcttcccc	tccatgaagc	4740
ctttggggat	ggcattcgcc	gccaggatct	cgtaccgttg	gcggaactcc	tgggaagacg	4800
tccggttggg	gaagccctgc	cggcagatgc	gaatgccttc	cagcacccca	ttgcaccgca	4860
gctgctccag	caccaggaac	gcacccagct	tgcgggacct	cttctcgttg	ttggggatga	4920
tcgagcgac	gaagtggggc	gtggtgttgc	gtagcgtggg	catcagcttg	cccagctgta	4980
cctgttacag	ctgcccact	gtgcggaaca	tgccttctct	ggtcctggag	gcgctgggca	5040
gcgagctctc	cgtcatcttg	gccatctggt	ccaggccca	gatgcgggtc	acgtccttcc	5100

acaggtcggc	cacaaacttg	tccgaggagg	cattgagcag	ggaagtcacg	ttgtcattca	5160
gcgggtccat	attccttggtc	agccaggcac	tccgattata	gtctaccttc	ccagcataat	5220
ggatgatgga	gaactcagtc	ttgtccttga	gctgcttggg	cttctggaac	ttgggggtggc	5280
tgccctgctc	cgtgcacagc	ttctccacga	aagacttgct	cgtggctttg	gggaaccagc	5340
attcctcgctc	cagcagggcc	agcacacctg	gaggggtgtt	cggctcgctcg	atgagctcga	5400
tgcagggctg	taggtccagc	ccaaagtoga	tgaagttcca	ctcgatgccc	tccgctggtg	5460
actcctcctg	ctccaaggat	gaacatggtg	tggttgaaga	gctgctgcag	cttctcgttg	5520
gtgtagttga	tgcacagctg	ctcgaaggag	ttcacctcaa	agatctcaaa	tccagctata	5580
tccaggatcc	ccaggaagga	agccccttgc	cgatgggtct	tgtccagggc	tttgttcacg	5640
cgggtgagta	tccagcggaa	aaggcgctca	tatgttgcc	tggccaaagc	ctctacagca	5700
aagtcagcct	gttcttttgt	ctgagctttc	tgtaccacat	ctcgcccaac	cttgatacga	5760
ggagtgaagga	tggatctggt	gaaatctgtc	acattaatcc	ccatgaggtg	gcaaactttc	5820
tgagcagctg	tgttatctgg	catggacgcc	tggctctgtg	ttctttcctt	cttgaagacg	5880
atattttcaa	gctgcaggac	cgatgatacc	accttcaata	tggatagctg	ctcctcctcg	5940
ctgaaaccga	tgattgccat	ggcctccacg	gtttcctgga	acatctcatc	atcctgggct	6000
gctgggatgg	gcacaaagcc	attggagagg	aagggtgtagt	tgttgaagcc	ctccaaaagc	6060
aagtcacttc	tcatcttctc	cttggctcca	gcaatcatgt	agtaaaagat	gtggaatgtc	6120
ctctcgtctc	tggcttggcg	aattgcccgt	gatttttcta	gcagataggt	ctcaatgttg	6180
gtctccacga	tgtaaaccgt	gacgtcgaag	ttgatgcgga	tgaatttgcc	gaatcgtgag	6240
gagttgtcgt	tcttcaactgt	tttggcggtg	ccgaaagcct	ccagaatcgg	gtttgcttgt	6300
agaagctgct	tttccagctc	tcccgatgata	cttgtgtctt	tcttgccctt	gtgggaggag	6360
gccaccacgg	ccaggtactg	aatgaccttc	ttggtgtttt	cggttttccc	ggctccagac	6420
tgcctgtgct	atagaatgga	ctggtcctcc	cgatcttgaa	gcattgctccg	gtaggccgtg	6480
tctgcatggt	cgtagatgtg	aggcggcatc	tctgctctct	tcttgccctt	gtacatgtcg	6540
acgatcttct	ccgagtagat	gggcaggtgt	ttataggggt	tgaccaccac	gcagaagagg	6600
ccagagtacg	tatatattag	cctgagaag	taccgctccc	tcaggttgtg	tagca	6655

<210> 527

<211> 1081

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1) ... (1081)

<223> n = a,t,c or g

<400> 527

aaactacatt	ttgcaaagtc	attgaactct	gagctcagtt	gcagtactcg	ggaagccatg	60
caggatgaag	atggatacat	caccttaaat	attaaaactc	ggaaaccagc	tctcgtctcc	120
gttggccctg	catcctcctc	ctggtggcgt	gtgatggctt	tgattctgct	gatcctgtgc	180
gtggggatgg	ttgtcgggct	ggtggctctg	gggatttggg	ctgtcatgca	gcgcaattac	240
ctacaagatg	agaatgaaaa	tccgacagga	actctgcaac	aattagcaaa	gcgcttctgt	300
caatatgtgg	taaaacaatc	agaactaaag	ggcactttca	aaggctcataa	atgcagcccc	360
tgtgacacaa	actggagata	ttatggagat	agctgctatg	ggttcttcag	gcacaactta	420
acatgggaag	agagtaagca	gtactgcact	gacatgaatg	ctactctcct	gaagattgac	480
aaccggaaca	ttgtggagta	catcaaagcc	agggactcat	ttaattcggt	gggtcggatt	540
atctcgccag	aagtcgaatg	aggctcggaa	gtgggaggat	ggctcgggta	tctcagaaaa	600
tatgtttgag	tttttggag	atggaaaagg	aaatatgaat	tgtgcttatt	ttcataatgg	660
gaaaatgcac	cctaccttct	gtgagaacaa	acattattta	aatgtgtgaa	gaggaaggct	720
ggccatgacc	caagggtggac	ccaactaccc	ttaatgccaa	agaggtggac	aggataacac	780
agataagggc	tttattgtac	aataaaagat	atgtatgaat	gcattcagtag	cctgaaaatt	840
gccttatttc	tccctttctt	ctcactggag	ttatttttaa	tattatcttt	cctatcagaa	900
ttacctagtc	ccttctttga	atatacagaa	gccatcacgt	gagtttatca	tttgcttccc	960
aattgttcta	ttttccttta	atcttcttct	ttcttctctc	tcattttctaa	ttacctgaac	1020
atgggtatgat	ttactgcac	ttcagatata	cacatataac	atcaaaaantn	aggccaatat	1080

a

1081

<210> 528
 <211> 1098
 <212> DNA
 <213> Homo sapiens

<400> 528
 ttttaactccc cctcttctta agagaat ttt aatgaagctg agataagagg catatttact 60
 tgcagtttgc cccattgtta ccttggattc ctccgagcgc acaagcttac cgcaaggctg 120
 actgtggatg tacttgggaa tctctcgtcg gctgtcctca atgctcacgt tcttagcata 180
 ccttcaccct agagaaaggc cccacatcg ggcgccagat gaaggggtgg cctgcccctc 240
 cacacctgtg ggtatttcta gtcaggtggg atgagagact gagaaaagaa agaagacaca 300
 gagacaaagt atagagaaac aacagtgggc ccaggggacc ggcaactcagc acaccaagga 360
 cctgcaccgg caccggcctc tgagtccct cagtttttat tgactattat tttcattatt 420
 tcagcaaaaa ggaatgtagt aggacagcag ggtgataata aggagaagg caacaaaaaa 480
 aacatgtgag caaaagaatc tatatcataa ttaagttcaa gggaaaggta tatgcctgga 540
 cgtgcacgta ggccagattt atgtttctct ccacccaaac atctcagtg agtaaaagaa 600
 aacaaggcag cactactgcc aacatgtctc gcctcccgcc acagggcagc ttttctccca 660
 tctcagagtt gaacaaatgt acgatcgggt tttacaccga gacattcagt tcccaggggc 720
 aagcaggaga cagtggcctt cctccatctc aactgcaaga ggctttcctc ttttactaat 780
 ccacctcagc acagaccctt tatgggtgtc aggtctgggg accatcagggt ctttctcatc 840
 ccacgaggcc atatttcaga caatcacatg gggagaaacc ttggacaata cgccgctttc 900
 aagggcaggc ctccctgcgg ctttccacgg tgcattgtgc ccctggttta ttgagactag 960
 agaatggtga tgacttttac caagtatact gcttgcaaat attttgttta caaggcacgt 1020
 cctgcacagc cctacatccc ttaaaccttg atttcataca cacatgtttt tgtgagctcc 1080
 aggttgggtc aaagtgggt 1098

<210> 529
 <211> 1998
 <212> DNA
 <213> Homo sapiens

<400> 529
 tttttttttt ttgtgggtaa aaccattttt attaactgac caaagcacat cttttgttt 60
 tctgatttga ggtaaaatca taaaacacag ttcacaagaa aatacaatga ctatttaacc 120
 acaattacaa gtttgaaatc tcaactaggtg ttcataact tttacaaatt catacaactg 180
 tatagtctac ttaagcttag tgtaaccaa aagagcaata tcaaagacct agacacttga 240
 ctactacttt tgcagtgggt atagttttat aacaacagaa taactgttac cttatgaata 300
 tactttactt taaaaaccac ttgactagcg actgtactgt ttcctcgtgg ttcaggggtg 360
 tgcataaggt ctcttaggag agcaaacacc tgttcctatt ctgtatgtcc ctccctcatt 420
 tcaaatgaga gtaaccaatt gagtaaaata accaaataac cattgcccc ccatgaacat 480
 ggggcttggg aagacagtcc tacaatcttc atcatatatt taggttttta ggccagccag 540
 ctcttttttt ccaaagcttt cttttgaatg ttcagatcct attaatccta actatagact 600
 actgtgtttt tgaggggtgtc tgagtgtcta tgtgagggca aggacaacag tgcagtccag 660
 aaacacagaa aatatgcttt tttgcagct agctctgttt tgagatttca tttgttact 720
 ggacagcgtc taatccatac caaagtcttt ggaacactgc agatttgctt tagaggtaga 780
 taaaacagaa atcatgcagt taagtcaatt gagaaaaaa aagggatttg ttgtctttac 840

```

agaacatcat gactaaaagt tgatcctttg ctcttgggtg acattttaaga tttttacctg 900
ttttgggaaa tacccaagtc ttccttgtct ctccaggaaa acacatttaa attcatcctg 960
tactaactac agatagaaga acagcagtat taccatgtgt attgcagcac tgcagttcac 1020
tttctggatt tgtgacacac aaacacatca tgtgacgtcg catgcacgcg tkkgtctggg 1080
kccctcgagg gatcctctag agcggccgcc cttttttttt tctttttcat tctaagaagt 1140
taattttatt agtgtcacta gtgatgttaa ttaaaaaact tatagcaagt gctcaaaact 1200
ttctaaatat tgtaatcact atgtttttaa gacagagtgg actgttataa atgattttgc 1260
aaaatacaaa aatagatata cttccactga aatgctttaa tcatttttcc gggcactctc 1320
atcttttggg tcttcctcat ctgagtacac agtgggctcc tccccctcct tcagcagttt 1380
gcccacgtga tgatacttga aagtgaactg agactcccag tcactcagag tctcctgtct 1440
gggcagcaag tgaggtcaga aagggtcatc gttactcatc cttcaggggc ttccttatcc 1500
agggcaaaat tgtaggcaag gccctgggga tgcattttct tccagcaaag accccatacg 1560
ggccccctcg gccccgtaag aaatttgcg gcttttgggt cacatcgaac accttgccgt 1620
tgatggccca tgagtatggc gcgggtcctt ggacgccgtc gaagcggcgc agcttcggcg 1680
gggggtgaag tcgcgcgcgt tgaggcgggg cagagggggc ggctcgtcgt cgtcgtctgc 1740
gccgcttggc cgccggctgg tccccgcgca cgatcttgta gagcaggaag atgcatgagg 1800
ccaagcagca gcaggttgag cggcgacgtg aaaatctcat gcagcagccc gccgctctcc 1860
agatcgcttg ggtcggcgcc agtcgccacc acatcctcgg cagccatgat ctctggagta 1920
aagggtgggc cgcgctaggc agggatccgg aactcgcac tttctcctcc ctctgagcga 1980
gcgagtggcg cgcgggggt

```

<210> 530
 <211> 766
 <212> DNA
 <213> Homo sapiens

```

<400> 530
tttttttttt ttaataaaac cataacaaat ctttcattaa agatctactg agaccttggc 60
tgaaatcatc tattattggt gctagtttag ctctcttcta tagttgggta atgtgtgtct 120
tgccactgtg tttgccagct ctccaagtg aaaagaacac tttttataaa aaaattaatt 180
gctccaagtt ttcaggccca ggggaggctc tccattctc ctccttcaat aagtcccgtc 240
caggtaagag gtgatcttgt ggataaatc atcatacttc actttgccat tgggttcgat 300
atctgccttc cctgaagaga tcatccact tccttgtggg tgagcttctc cccagactc 360
gtgagttttg accgcaggtc ggacgccatg acgtaacctt tcttctcctt gtccaccatc 420
aacatggcta gaagaatttc tttctttggg tcttcttgtt ttatttgcac gtgcataatg 480
gtcagaaaag tggagaaatc cagctctcca tttccgtcta tcccgtaggt ctgcagggtc 540
cgtgcacct cccctggcgt cgggtcggcc cccaggcacc tcatggccac catgaggtcg 600
gtggctttta tcttccccct ctgctgcttg tcatacaggg agaagcattc cttgtactca 660
ttaatttggt cttgggaaag aaacttggcc attctggggc ctgagctgct acccgtagggc 720
ttgctgctcc cagaaccgcg ttcagtcccc tttcctcctc cgtgcc

```

<210> 531
 <211> 1891
 <212> DNA
 <213> Homo sapiens

```

<400> 531
tgcaggaatt cggcacgagg ctgagcggat cctcacacga ctgtgatccg attctttcca 60

```

gcggcttctg	caaccaagcg	ggtcttacc	ccggtcctcc	gcgtctccag	tcctcgcacc	120
tggaaaccca	acgtccccga	gagtcctccga	atccccgctc	ccaggctacc	taagaggatg	180
agcgggtgctc	cgacggccgg	ggcagccctg	atgctctgcg	ccgccaccgc	cggtgctactg	240
agcgctcagg	gcggaccctg	gcagtcctaa	tcgctgcgct	ttgctgctctg	ggacgagatg	300
aatgtcctgg	cgcacggact	cctgcagctc	ggccaggggc	tgcgcgaaca	cgccggagcgc	360
accgcagctc	agctgagcgc	gctggagcgg	cgcctgagcg	cgtgcgggtc	cgctgtcag	420
ggaaccgagg	ggtccaccga	cctcccgtta	gccccgtaga	gccgggtgga	ccctgagggtc	480
cttcacagcc	tgcagacaca	actcaaggct	cagaacagca	ggatccagca	actcttccac	540
aaggtggccc	agcagcagcg	gcacctggag	aagcagcacc	tgcgaattca	gcattctgcaa	600
agccagtttg	gcctcctgga	ccacaagcac	ctagaccatg	aggtggccaa	gcctgcccga	660
agaaagagcg	tgcctcagat	ggcccagcca	gttgaccctg	ctcacaatgt	cagccgcctg	720
caccggctgc	ccagggattg	ccaggagctg	ttccagggtg	gggagaggca	gagtggaacta	780
tttgaaatcc	agcctcaggg	gtctccgcca	tttttggtga	actgcaagat	gacctcagat	840
ggaggctgga	cagtaattca	gaggcgccac	gatggctcag	tggacttcaa	ccggccctgg	900
gaagcctaca	aggcggggtt	tggggatccc	cacggcgagt	tctggctggg	tctggagaag	960
gtgcatagca	tcacggggga	ccgcaacagc	cgcttgcccg	tgcagctgcg	ggactgggat	1020
ggcaacgcgc	agttgctgca	gttctccgtg	cacctgggtg	gcgaggacac	ggcctatagc	1080
ctgcagctca	ctgcacccgt	ggccggccag	ctgggcgcca	ccaccgtccc	accagcggc	1140
ctctccgtac	ccttctccac	ttgggaccag	gatcacgacc	tccgcaggga	caagaactgc	1200
gccaaagacc	tctctggagg	ctggtggttt	ggcacctgca	gccattccaa	cctcaacggc	1260
cagtacttcc	gctccatccc	acagcagcgg	cagaagctta	agaagggaat	cttctggaag	1320
acctggcggg	gccgctacta	cccgtgcag	gccaccacca	tgttgatcca	gcccattggca	1380
gcagaggcag	cctcctagcg	tcctggctgg	gcctggctcc	aggcccacga	aagacgggtga	1440
ctcttggtc	tgcctcagga	tgtggcgtt	ccctgcctgg	gcaggggctc	caaggagggg	1500
ccatctggaa	acttgtggac	agagaagaag	accacgactg	gagaagcccc	cttcttgagt	1560
gcaggggggc	tgcctgcgtt	gcctcctgag	atcgaggctg	caggatatgc	tcagactcta	1620
gaggcgtgga	ccaaggggca	tggagcttca	ctccttgctg	gccagggagt	tggggactca	1680
gagggaccac	ttggggccag	ccagactggc	ctcaatggcg	gactcagtca	cattgactga	1740
cggggaccag	ggcttgtgtg	ggtcgagagc	gcctcatgg	tgtgtgtgt	gttgtgtgt	1800
ggtcccctgg	ggacacaagc	aggcgccaat	ggtatctggg	cggagctcac	agagttcttg	1860
gaataaaaagc	aacctcagaa	caaaaaaaaa	a			1891

<210> 532
 <211> 1381
 <212> DNA
 <213> Homo sapiens

tttttttttt	ttgaagggtat	aaaacagcta	atgtttttact	taactattct	gaaagtaact	60
gacaggtaat	aaaaatgtgg	gttttattag	tccactacag	tcacaataca	atcgatcatag	120
atttcccctt	ctgtattcat	cccaccaaac	accaaacaga	gcagtgtagc	agtctggctt	180
tcctcatgtg	agtcaccact	gtggctcatt	actttgtcag	ctgaatcctc	tttctcagct	240
tcatggttca	gagtgagaga	gttggaatc	ttctttctca	gaagcacacg	tcactggccc	300
atgggaatga	taccacatgg	gaatgggtcc	caatcgctcc	aggggggtag	gaaggagtat	360
ccaaatttaa	ggcaagggtc	ccaatgctgc	tcttctgtgt	gatactgggt	acattgtgtc	420
ccaggtgctc	ctgcaggagt	cattccacca	acatgttttt	cccatggcca		480
cagctggagt	ggggaagcac	agcctgctgg	aggcagcccc	agtgggattt	agcttctgcc	540
atttcatgtc	acttatatca	atgcagtgg	ggatcatcata	gaatctgtcc	ccgcaccaagc	600
ctccgtggat	gaagagcttt	gtccctgctg	ccaccatcac	atgacctgctc	cggggagatg	660
gaggatttcc	aagtgtctct	ggctgtgacc	aggtcagagt	gtttgcgtca	aacacatgca	720
gcttctgtgc	ctgcacgggc	tgggcacctc	tctctccgcc	cccaaagaca	tatagctgggt	780
ttccaatggc	tgcctgatgat	gtgtggaatg	ttcttgggga	tgggtggggg	ctgggtcactt	840
ctggcgtggg	ccacgtcctg	gtttcaggat	tcaggacttg	tagacaattt	cgatttccctg	900
attggttggc	acctccaaat	acccagatac	ggtcagggtg	gcaggaggga	atgaagctag	960
catgttcata	ccggggcaag	aggcccttgc	aggtatctaa	gtccctctgg	tgttttccca	1020
gatccatggg	gtgcacgtct	gagaagcttc	tgtttggatt	tgtctcccca	acaatgaaga	1080

ccttccctct	cttggcatta	ccaactgggg	gtaaatgatga	acagctgtgg	ccaactcgag	1140
cacaggggct	gtctccaggg	acagtcaagg	tgtaccatgt	tgctttcctg	ggcttgtctc	1200
caggttccaa	gactggcagt	tgcttcatgg	tgctctgcgg	cctaggccac	tgacagctgt	1260
ccccaaagtc	cagagctcag	ttaggctggc	ttcacgtggg	cgggacctcc	cgcagcagcc	1320
gccgctacca	gccagcaaa	tctcatcccc	acgtggcagt	tctgcggcga	cttaggccag	1380
t						1381

<210> 533
 <211> 1986
 <212> DNA
 <213> Homo sapiens

<400> 533

taataataaa	aaataacttt	ttaaatgggc	aaaggctctg	aatagacatt	tctccaaaaa	60
acatatataa	atggccaatc	agcacatgaa	aagatgttca	acatcatcag	ccatcaggga	120
aatacaagtc	aaaattgcaa	tggtatacaa	ttaatatacc	atttaacatt	cccaatagta	180
gcctacaact	tccatttcca	ctgtggaaaa	cggtttgga	gttcctcacg	gtagtcaagt	240
tacttaactg	ctctgtaaaa	tgaagttaat	cacattcact	ttggatgaat	gagttcatat	300
atattagcta	taattactac	agcaattatc	atttgtgtaca	ttattactga	ttgggtcaaa	360
ttattaaccc	cgtctcccta	attcatttac	ttttgttact	ttggatgaat	atttaaagta	420
gtcttgaact	gagatatgta	tgtaaagggt	ctatcacatt	ggcatataac	atgtgtctca	480
caaatgaaag	ctataattat	ttatttccaa	agagtttaaa	gattaaactt	ccctcaaaac	540
aaacaaagg	caaggtaaca	tcccaagctg	tgaggggctg	agtctctcct	agggtgcagg	600
cagcacagga	actggctgca	caaggccaga	gaggttacgt	ggcgggctctc	ttcaaattag	660
accacacaga	gcgcttcatt	ccctgtgcag	tcttcacatc	ttcccagtc	agtttgacgt	720
ctggaacctc	atcttctggc	tctggatcct	tctcaagggt	cccccggggg	gacgcaacca	780
caatgggcag	agggccacat	tcctcccga	tttcacaac	atggaggccc	ttcttatcag	840
ccagctgttg	atgggtttcc	tgtctggaga	gcccacggaa	gaggccctgg	gtgaggctga	900
gcatattaat	ggaccagag	accttggcat	acatgtcttt	gatgccaatg	agccggcaga	960
tggtgatgat	ggccctgtgg	cagcggaggc	cgtaaccttt	gggttggttc	ttcatcttga	1020
tatgcgtcct	tttaaatctt	aatgaaatat	catggaatat	tgtatggtct	tcatatcggt	1080
ctatataatg	caaatgggtga	actgctctgt	tctttgcttt	cctgaaagca	tccatccgat	1140
cagtagcttt	cccaatagaa	aaacctcaag	tatcctggta	tcaaaatcct	catatgtttc	1200
tccacaggga	ccagggtcag	gggggccaag	actgatgcct	ccccatgagt	ttccactcca	1260
tctctgcctc	cgtttaacct	tcactctctt	ctttcggctc	cactcttctc	tctgctggat	1320
catgtctgcc	tccaccttct	cctgctcttc	cttgctctct	tgggcaatgg	tctgcactgc	1380
tccatttttc	ataagaggga	cattcagtc	gggccataga	aaaccataac	gcccttcacc	1440
aatgatctga	ccctgttca	gatcctttct	tttcttcttt	ttagttcttt	tgctctcttc	1500
tttttttggc	ccagcaccag	tctctgctaa	agcgcctttc	cacagctcat	ctgcagtcaa	1560
tttagtgaag	aaactatatg	gtctatactg	ctggctcatc	aggtgactgg	gagaagaaat	1620
acagcattgt	gtctgcagtg	cacggctcaa	gctggcgtag	ggatgggtgt	ctctggttcc	1680
cagtgatgac	aaatggccat	tgccgagaac	actcttccat	gccaaaatgg	aagctgctgg	1740
taagggtgtt	agggaacact	gcctcccaa	taaatgacct	gccgtcccgc	tacacagcac	1800
ggggaggcag	cccacagcgc	gcaccgcggt	cgccatgctg	gagtcagagc	cgcgcctcgg	1860
cctccgcccc	gggcagcctt	gccaccgcgc	taccgcgact	gctcctcgtc	aaacggcagg	1920
ccttgggcgc	cagcggaatt	cctgaggccc	gagtcacgc	agcagcgag	gccgggggtga	1980
gggact						1986

<210> 534
 <211> 1891
 <212> DNA
 <213> Homo sapiens

<400> 534

tgcaggaatt	cggcacgagg	ctgagcggat	cctcacacga	ctgtgatccg	attctttcca	60
gcggtttctg	caaccaagcg	ggtcttacct	ccggtctctc	gcgtctccag	tcctcgacc	120
tggaacccca	acgtccccga	gagtcctcca	atccccgctc	ccaggctacc	taagaggatg	180
agcgggtgctc	cgacggcccg	ggcagccctg	atgctctgcg	ccgccaccgc	cgtgctactg	240
agcgtcagg	gcggaccctg	gcagtccaag	tcgcccgcgt	ttgcgtcctg	ggacgagatg	300
aatgtcctgg	cgcaaggact	cctgcagctc	ggccaggggc	tgccgcaaca	cgcggaagcg	360
accgcagctc	agcctgagcg	gctggagcgg	cgctgagcgg	cgtgcgggtc	cgctgtcag	420
ggaaccgagg	ggtccaccga	cctcccgtta	gcccctgaga	gccgggtgga	ccctgaggtc	480
cttcacagcc	tcagacaca	actcaaggct	cagaacagca	ggatccagca	actcttcacc	540
aaggtggccc	agcagcagcg	gcacctggag	aagcagcacc	tgcaattca	gcctctgcaa	600
agccagtttg	gcctcctgga	ccacaagcac	ctagaccatg	aggtggccaa	gcctgcccga	660
agaaagaggc	tgcccgagat	ggcccagcca	gttgaccctg	ctcacaatgt	cagccgcctg	720
taccgggtgc	ccagggtatg	ccaggagctg	ttccagggtg	gggagaggca	gagtggaacta	780
cttgaatcc	agcctcaggg	gtctccgcca	tttttggtga	actgcaagat	gacctcagat	840
ggagcgtgga	cagtaattca	gaggcgccac	gatggctcag	tggaacttcaa	ccggccctgg	900
gaagcctaca	aggcgggggt	tggggatccc	cacggcgagt	tctggctggg	tctggagaag	960
gtgcatagca	tcacggggga	ccgcaacagc	cgctggcccg	tcagctgctg	ggactgggat	1020
ggcaacgccg	agttgctgca	gttctccgtg	cacctgggtg	gcgaggacac	ggcctatagc	1080
ctgcagctca	ctgcaccctg	ggccggccag	ctggcgccca	ccaccgtccc	accagcggc	1140
ctctccgtac	ccttctccac	ttgggaccag	gatcacgacc	tcgcaggga	caagaactgc	1200
gccaagagcc	tctctggagg	ctggtggttt	ggcaactgca	gccattccaa	cctcaacggc	1260
cagtacttcc	gctccatccc	acagcagcgg	cagaagctta	agaagggaat	cttctggaag	1320
acctggcggg	gccgctacta	cccgtctcag	gccaccacca	tggtgatcca	gcccattgga	1380
gcagaggcag	cctcctagcg	tcctggctgg	gcctgggtccc	aggcccacga	aagacgggtg	1440
ctcttggtct	tgcccagagg	tgtggccgtt	ccctgcctgg	gcaggggctc	caaggagggg	1500
ccatctggaa	acttgtggac	agagaagaag	accacgactg	gagaagcccc	cttctctgag	1560
gcaggggggc	tgcatgcgtt	gcctcctgag	atcgaggctg	caggatatgc	tcagactcta	1620
gaggcgtgga	ccaaggggca	tggagcttca	ctccttgctg	gccaggaggt	tggggactca	1680
gagggaccac	ttggggccag	ccagactggc	ctcaatggcg	gactcagtca	cattgactga	1740
cggggaccag	ggcttgtgtg	ggtcgagagc	gccctcatgg	tgctggtgct	gttgtgtgta	1800
ggtcccctgg	ggacacaagc	aggcgccaat	ggtatctggg	cggagctcac	agagttcttg	1860
gaataaaagc	aacctcagaa	caaaaaaaaa	a			1891

<210> 535
 <211> 1874
 <212> DNA
 <213> Homo sapiens

<400> 535

cggaacgctg	ggcgaaacct	gaacctacg	gtcccgaacc	gcgggagagg	ccgggtacct	60
gggctgggat	ccggagcaag	cgggcgagg	cagcgcccta	agcaggcccg	gagcgatggc	120
agccttgatg	accccggaag	ccggggcccc	acccgcgcct	ggtgacttct	ccggggaagg	180
gagccaggga	cttcccagac	cttcgccaga	gcccgaagcag	ctcccggagc	tgatccgcat	240
gaagcgagac	ggaggccgcc	tgagcgaagc	ggacatcagg	ggcttcgtgg	ccgctgtggg	300
gaatgggagc	gcgcaggggc	cacagatcgg	tgctgaggga	gggttggggc	ttcctgacct	360
cgactgggag	gtcagcccga	gagactttgg	gtccctgggg	gtgcgacggg	gccccactac	420
cagcaccggc	cccagggtgc	cccaccgctg	tgggtgcca	ccctcacgcg	tacccccaca	480
taccaggggc	catgctgatg	gccatccgac	ttcggggcat	ggatctggag	gagacctcgg	540
tgctgaccca	ggccctggct	cagtcgggac	agcagctgga	gtggccagag	gcctggcgcc	600
agcagcttgt	ggacaagcat	tccacagggg	gtgtgggtga	caaggctcag	ctgggtcctg	660

cacctgccct	ggcggcatgt	ggctgcaagg	ttataaacca	cctcctttcc	agacgggagc	720
ctataccgca	catgcagcaa	ccagtccatc	cacaggcagc	tcccaacctc	aagcctggcc	780
caaagcctcc	aagaccctac	caaggcttct	ccccaccctg	ctcccagca	cagttctccc	840
caccccgttc	cccagcacag	cgcttggggc	ccctctgggt	ccagaccagg	ccccttgagg	900
caggaaaaag	atccactgat	ggaattcaga	cccctttccc	cttgggtccc	cagacagctc	960
ccccaaaggga	ggagctgagg	acttccctcc	ctctgcccc	agccttgttt	ccccaggac	1020
aggtaccaac	ctcctcccct	actgacactt	ctcaaccaag	aaaacttctt	ttccattccc	1080
tcaccagctg	ggcaccctta	tagctgctta	aatactttcc	aaatccagct	gcactcctag	1140
ccagggaagg	tgaagggatg	cacagagggt	ggggaggggt	actgtgcagg	gtactcagca	1200
tccctgacca	ccaggtgcc	atgatcagcg	gacgtggtct	ggggcacaca	ggaggcacct	1260
tggataagct	ggagctctatt	cctggattca	atgtcatcca	gagccagag	caggtagcgg	1320
gcgccacgga	tcagtcattg	atccagggtg	atgatggaga	ccctggccag	aatcactaaa	1380
agatcactgg	tggatcatta	gggtcactaa	tgagaacact	ggtcaagggt	actcatgagt	1440
cactgggcct	gggccgaaat	catcagtgg	actttgatta	ggatcataaa	atgggaagtt	1500
ggtcaaaatc	acagatggct	ggcggggcac	ggtggctcac	acctgtagtc	ctagcacttg	1560
gggaggccga	agagggcaga	tcccttgaac	ccaggagttc	aaaaccagcc	tggataaac	1620
ggcaaaaccc	catctctaca	aaatagttcg	ctgcgtgtgg	tggtcacgc	atgtggttcc	1680
agctactcag	gaggctgagg	caggaggatc	acttgagcct	gggaggtcta	ggctgcagtg	1740
agccgggacg	atgccactgc	actccagcct	gggcaacaga	gtgagaccct	gtcccagcac	1800
tctgggaggc	agaggagccc	agttggagat	caggctgggt	aataatagtg	aacttgatct	1860
ctacaaaaaa	aaaa					1874

<210> 536
 <211> 704
 <212> DNA
 <213> Homo sapiens

<400> 536	
agagagccct	gcggaactg
accgcgagga	cgtcagcacc
gtgagggttc	ctgtgagccg
atttctctgt	gccgaagacc
cacatctggc	gatgtagggg
ccttgaatac	tggatcggcc
gtgggtggac	ggagtccac
ggccacaggt	tagactctag
tcaggagttc	aagaccagca
aaaattagcc	gggcgtgggt
acgagaatca	cttgaaccca
ctccagcctg	ggagacagag
cgtgagcgcg	tgaccatgg
gagctgtacc	gggcgctgga
cgctggctgcc	cttcgggggc
agggcgaggg	ccactgcgc
gcaggacttc	ctgagtcgtg
gcaacacctg	cgcaagggtc
gtaggggaag	ggctcctggg
ggtgggcgga	tcacctgagg
ggcgaaaccc	catctctact
ctaaccctgg	atgctgaggg
gccgagattg	cgccactgca
tctcaaaaaa	aaaa
	60
	120
	180
	240
	300
	360
	420
	480
	540
	600
	660
	704

<210> 537
 <211> 1058
 <212> DNA
 <213> Homo sapiens

<400> 537		
agatggccgc	gctcctggcc	gcctagagcc
ggagcggccc	gaggagctgc	ggaggcagcc
		60

atggtcgggg	cgctgtgcgg	ctgctgggtc	cgcctgggcg	gggcccggcc	gctcatcccg	120
ttgggcccga	ctgtgtgtaca	gacctccatg	agccgggtccc	aggtagccct	gctggggcctg	180
agtctgctgc	tcattgtcct	actgtatgtg	gggctgccag	gccccctga	gcagacttcc	240
tgcctctggg	gagaccccaa	tgtcacagtc	ctggctggtc	tcacccctgg	caactcggcc	300
atcttttacc	gcgaggtgct	cccaactcaac	caggcacaca	gggtggaggt	ggtgctgctt	360
catggaagg	cctttaactc	tcacacgtgg	gagcagctgg	gcacactgca	gctactgtca	420
cagaggggct	accggggcgt	ggcccttgac	cttcagggtt	ttgggaactc	ggcaccttca	480
aaggaggcaa	gcacagaggc	agggcgggca	gcgtgctgg	agcggggcgt	gcgggacctg	540
gaggtacaga	atgccgtgtt	ggtgagcccc	tcgtgagtg	gccactatgc	cctgcccttc	600
ctgatgcgag	gccaccacca	gctacatgga	tttgtgccca	tcgcaccac	ctccaccag	660
aactacaccc	aggagcaatt	ctgggctgtg	aagatcccaa	cccttatcct	gtatggagag	720
ctggaccaca	tcctggctcg	agagtcactg	cggcagctcc	gccacctgcc	caacctactt	780
gtggtgaagc	tacgcaatgc	aggccatgcc	tgttacctcc	acaagccgca	agacttccac	840
cttgtctgc	ttgccttcct	tgaccatcta	ccttgaacta	acccactccc	agctcccagc	900
ctggcatgag	cctggacagt	ctggaccgcc	accctccctg	aaccagggag	acagcctctg	960
ggattggagg	ccagaggcca	gggtcagacc	cagccaggac	tcctcatttc	atctcacaga	1020
cacaataaaa	aagcatattt	gtcctgccaa	aaaaaaaa			1058

<210> 538
 <211> 1895
 <212> DNA
 <213> Homo sapiens

<400> 538						
cccacgcgtc	cgccgcggcc	accgtaaggc	taggcgcgca	gcttagtcct	gggagccgcc	60
tccgtgcgcg	cgtcagagc	cgccctatca	gattatctta	acaagaaaac	caactggaaa	120
aaaaaatgaa	attccttatc	ttcgcattht	tcgggtgggt	tcacctttta	tccctgtgct	180
ctgggaaagc	tatatgcaag	aatggcatct	ctaagaggac	ttttgaagaa	ataaaagaag	240
aaatagccag	ctgtggagat	gttgctaaag	caatcatcaa	cctagctgtt	tatggtaaag	300
cccagaacag	atcctatgag	cgattggcac	ttctggttga	tactgttggga	cccagactga	360
gtggctccaa	gaacctagaa	aaagccatcc	aaattatgta	ccaaaacctg	cagcaagatg	420
ggctggagaa	agttcacctg	gagccagtga	gaatacccca	ctgggagagg	ggagaagaat	480
cagctgtgat	gctggagcca	agaattcata	agatagccat	cctgggtctt	ggcagcagca	540
ttgggactcc	tccagaaggc	attacagcag	aagttctggt	ggtgacctct	ttcgatgaac	600
tgagagaaag	ggcctcagaa	gcaagaggga	agattgttgt	ttataaccaa	ccttacatca	660
actactcaag	gacgtgcaaa	taccgaacgc	agggggcggt	ggaagctgcc	aagggtgggg	720
ctttggcate	tctcattcga	tccgtggcct	ccttctccat	ctacagtcct	cacacaggta	780
ttcaggaata	ccaggatggc	gtgcccaga	ttccaacagc	ctgtattacg	gtggaagatg	840
cagaaatgat	gtcaagaatg	gcttctcatg	ggaataaaa	tgtcattcag	ctaaagatgg	900
gggcaaaagac	ctaccagat	actgattcct	tcaacactgt	agcagagatc	actgggagca	960
aatatccaga	acaggttgta	ctggtcagtg	gacatctgga	cagctgggat	gttgggcagg	1020
gtgccatgga	tgatggcggt	ggagccttta	tatcatggga	agcactctca	cttattaaag	1080
atcttgggct	gcgtccaaag	aggactctgc	ggctgggtgt	ctggactgca	gaagaacaag	1140
gtggagttgg	tgccctccag	tattatcagt	tacacaaggt	aaatatttcc	aactacagtc	1200
tggtgatgga	gtctgacgca	ggaaccttct	taccactggg	gctgcaattc	actggcagtg	1260
aaaaggccag	ggccatcatg	gaggaggtta	tgagcctgct	gcagccctc	aatatcactc	1320
aggtcctgag	ccatggagaa	gggacagaca	tcaacttttg	gatccaagct	ggagatgcctg	1380
gagccagtct	acttgatgac	ttatacaagt	atttcttctt	ccatcactcc	cacggagaca	1440
ccatgactgt	ccatgggatc	caaacgcaga	tgaatgtttg	ctgctgctgt	tttgggctgt	1500
tgtttcttat	gtgtgttgca	gacatggaag	aaatgctgcc	taggtcctag	aaacagtaag	1560
aaagaaaaccg	ttttcatgct	tctggcccag	gaatccctgg	gtctgcaact	ttgggaaaac	1620
ccctcttccac	ataaccattt	tcattccaat	tcattctcaa	agcacaactc	taatttcatg	1680
ctttctcggt	attatctttc	ttggatactt	tccaaattct	ctggattcta	ggaaaaaggg	1740
aatcatcttc	ccctccctc	cccaccaca	tagaattcaac	atatggtagg	gattacagtg	1800
ggggcattttt	ctttatatca	cctcttaaaa	acattgtttc	cactttaaaa	agttaaacac	1860
ttaataaatt	tttggaaata	atctgaaaaa	aaaaaa			1895

<210> 539
 <211> 2730
 <212> DNA
 <213> Homo sapiens

<400> 539
 ttttttttgggt ttttattttt tctttttaag tttgattttt tttatttcaa aatgctttgc 60
 aattaaatga attactgttc agaagtctcc cacttttcat acaaaaatac tgtgctactg 120
 atacagttga aaaaattcaa tgatgtctct cctgcaggag aaattcacag catccccagg 180
 gtcaacatga aatctggccc tgtccccgcc actgggggct ccccaggcct gcgttcctga 240
 taaactggga caggttttcc aggcactgac caactatcca ccaagggtcc tctgcctcca 300
 agacagaccc tgaatcaata gcagcaactt tcccataatt catgtaggga tatgtggagg 360
 gggacaggaa ctctcccatt tccccagctg ggcctactac ctgcctgcc tgttcactct 420
 ggtgccatga ggcaggttca gtgattgatt ggtcttgcc tctgcagagg acctggccag 480
 ctccagaagg gtcactcatc aggtcctgca aaggtctgta tcattaatca gtgtcatcag 540
 tgtcctcaga agacactagc agagtccagg gtgatgcgtt cagccacaag cacaagact 600
 gcttttttcta aagagcagga tgaggtgaat gtgggaacgg aaagcagttg tcacgaaggc 660
 tgtgtggctc tgctggggga gaggcaccca cagtctgtgc caaggaggta cctcacctcg 720
 tgcagcagga gcgttaaggc caaaaaacaa aaggggccaa cagaaaacag ctcagggtgat 780
 gggggggagga gcagcaagaa aaaacgcaca ccgagaccac ctgaaggttc ggtcagggaat 840
 gcaggctctt ccgtctatac agtgtttaaa aagatccaaa tgtgactgag atcattccag 900
 cctgcacttt ttattttgtag gcagaaggaa cgggataggt tgaggggcat gacgggggct 960
 ctgccacct ctgtctgca cctctggaac aggtgggagc cgaatcattc aagtcctacc 1020
 tggtcagact cccaaccacg ctgaggcagg cccttacctt ggattgcctc atgggctctc 1080
 ctcttgaaaa gacctcact ctgtttggaa aagatccctt agcagccata atcaggaaaag 1140
 agactctaga gcgagcccag ggcttcccca aagcgggatt ttctgtcctg ttttcagctg 1200
 gaaattgaag tccttggggg cctcgaagat gagcacgatg gtggagccca ggttgaactc 1260
 gcccagggtgc tcgcctttac gcattggggac gccctctcta ttggtgtgct tcacgaagct 1320
 gaagtcatgt taggagccct tgctgtgctt tgggtctgtt gtgtgcaggt cccgggtcaa 1380
 gtactacga attggagccc agttgggtgg cccccacagc tgtcagttag aagaagccat 1440
 gtttcagtc ccccgtcagg accaccgct cgttatggca gaagagctct ttgatccagc 1500
 gagccatgcc aggggttact gacatcaggg agcctgggaa gtggcgccgg tgggacacag 1560
 tccagtcggt gggggagtg aagcagtggt agtcccagg ggccaggtag atgacacagt 1620
 gatagagctc attcccttcc cgggtgacca gctggttctt gaaggagtca cacgacgagg 1680
 ctggtgggaa gggcagggtc tctgtgcaca tacgcggggc caggaacgac tccaggaggt 1740
 aggtgacccc ctttacctgc tccacctcac agttcttca cctgcccagg ttgaggatcc 1800
 ttccatccga tgggctaate acgctgtgca ggccacagac aggcggggcc tgcggcttca 1860
 gcttgccggc gaagaactcg ctgaggttgc ggtagtgatg caggtcctcc acagcggcct 1920
 ctttcatgtt cccccaaac gtccagatgt acaggctgta gacgggcctg cgcagccagt 1980
 gtggcagctc cacctgattg aggcgacccc aggcctgga cagcaagcgc gttggcactg 2040
 acttgtacaa agccaccctg cttacggggc tccatcccac ccggctgagc ggtctgaggg 2100
 cgccgaaggg caggaggtag tagaggacgg tcaaaggcca ggagcgcagt ttcagagcgg 2160
 gtctggacat gcagctcagc tgccccagcc tccgcctcag ggccagctgg gggaaagtga 2220
 accatttcgc cgcggggagc tctggtcctt gccgcgcctc tgactgacac atcatgggccc 2280
 ggcgcaggga gggcggggcg aggtcactcc tttgttttcc tctttctcc 2340
 ccttcccccg agccagcaga tctcctgtgc tgtcactgct ccagggcctc tgcctctgag 2400
 aggtctggtt gtggcgccgc ttcttgggtt tgggttcagt tcggtggctc acagggtgca 2460
 gaatagaggg tcaggggcgc gcccggcagg agataagatg tggagggaagt gagctcacgc 2520
 agcccgggccc gtgcccacgt ggggacggaa aaaaagccca cgactcgctc aaccttgtcc 2580
 gcggggctcc tcaggccggg gccgcgtcgt cacagctggg agagcccacc tgcgaccgaa 2640
 ggccctagaa gggcaccccc acccggcact ggcctctgca gcgggcaggg tggggcgcc 2700
 ccctgagaag tcacctgggg ctccacgaaa 2730

<210> 540
 <211> 3707
 <212> DNA
 <213> Homo sapiens

<400> 540

ggctgcccga	gcgagcggtc	ggacctcgca	ccccgcgcgc	cccgcgccgc	cgccgcgcgc	60
ggcttttgtt	gtctccgcct	cctcgccgcg	cgccgcctct	ggaccgcgag	ccgcgcgcgc	120
cgggaccttg	gctctgccct	tcgcgggcgg	gaactgcgca	ggaccgggcc	aggatccgag	180
agaggcgcg	gcgggtggcc	gggggcgcgc	cgggcccgcc	catggagctc	cgggcccagag	240
gctggtggct	gctatgtgcg	gccgcagcgc	tggtcgcctg	cgcccgcggg	gaccggcca	300
gcaagagccg	gagctgcggc	gaggtccgcc	agatctacgg	agccaagggc	ttcagctcga	360
gcgtacgtgc	cccaggcgga	gatctcgggt	gagcacctgc	ggatctgtcc	ccagggtctac	420
acctgctgca	ccagcgagat	ggaggagaac	ctggccaacc	gcagccatgc	cgagctggag	480
accgcgctcc	gggacagcag	ccgcgtcctg	caggccatgc	ttgccaccca	gctgcgcagc	540
ttcgatgacc	acttccagca	cctgtcgaac	gaçtcggagc	ggacgctgca	ggccaccttc	600
ccggcgccct	tcggagagct	gtacacgcag	aacgcgaggg	ccttccggga	cctgtactca	660
gagctgcgcc	tgactaccg	cggtgccaac	tgatcactgg	aggagacgct	ggcgagttc	720
tgggcccgcc	tgctcgagcg	cctcttcaag	cagctgcacc	cccagctgct	gctgcctgat	780
gactacctgg	actgctggg	caagcaggcc	gaggcgctgc	ggccctttcg	gggaggcccc	840
gagtagagct	gcgcctgcgg	gccaccagtg	gccgttcgtg	gctgctcgcg	tcctttgtgc	900
agggcctggg	cgtggccagc	cgacgtggtc	cggaaagtgg	ctcaggtccc	cctgggcccgc	960
ggagtgtctc	gagagctgta	attgaagctg	ggtcttactg	tggtctcact	gcgtgggagt	1020
ccccggcgcc	aggccatgcc	ctgactattg	ccgaaatgtg	ctcaagggtc	gccttgccaa	1080
ccaggccgac	ctggacgcg	agtggaggaa	cctcctggac	tcctggtg	tcctaccgga	1140
caagttctcg	ggtacatcgg	gtgtggagag	tgatcctggc	agcgtgcaca	cgtggctggc	1200
ggaggccatc	aacgcctccc	aggacaacag	ggacacgctc	acggccaagg	tcctccaggg	1260
ctgcgggaac	cccaaggcca	accccagggg	ccctgggcct	gaggagaagc	ggcgccgggg	1320
caagctggcc	ccgcgggaga	ggccaccttc	aggcacgctg	gagaagctgg	tcctccgaagc	1380
caaggcccg	ctccgcgacg	tccaggactt	ctggatcagc	ctcccaggga	cactgtgcag	1440
tgagaagatg	gccctgagca	ctgccagtga	tgaccgctgc	tggaaacggga	tggccagagg	1500
ccggtgacct	ccgaggtcca	tgggtgacgg	cctggccaac	cagatcaaca	accccagggt	1560
ggagggtggc	atcaccaagc	cggacatgac	catccggcag	cagatcatgc	agctgaagat	1620
catgaccaac	cggctgcgca	gcgcctacaa	cggcaacgac	gtggacttcc	aggacgccag	1680
tgacgacggc	agcggtcggg	gcagcgggtg	tggctgtctg	gatgacctct	gcggccggga	1740
ggtcagcagg	aagagctcca	gctcccggac	gcccttgacc	catgccctcc	caggcctgtc	1800
agagcaggaa	ggacagaaga	cctcggtcgc	cagctgcccc	cagcccccca	ccttccctct	1860
gccccctctc	ctcttccctg	cccttacagt	agccaggccc	cgggtggcggt	aactgccccca	1920
agggccccag	gacagaggcc	aaggactgac	tttgccaaaa	atacaacaca	gacgatattt	1980
aattcacctc	agcctggaga	ggcctggggg	gggacaggga	gggcccggcg	ctctgagcag	2040
gggcaggcgc	agagggtccc	gccccaggcc	tggcctcgcc	tgcccttctg	ccttttaatt	2100
ttgtatgagg	tcctcagggtc	agctgggagc	cagtgtgccc	aaaagccatg	tatttcaggg	2160
acctcagggg	cacctccggc	tgcctagccc	tccccccagc	tccttgacc	gccgcagaag	2220
cagccctcgc	aggcctacag	aggaggcctc	aaagcaaccc	gctggagccc	acagcgagcc	2280
tgtgccttcc	tccccgcctc	ctcccaactg	gactcccagc	agagcccacc	agccagccct	2340
ggcccacccc	ccagcctcca	gagaagcccc	gcacgggctg	tctgggtgtc	cgccatccag	2400
ggtctggcag	agcctctgag	atgatgcctg	atgccctccc	ctcagcgag	gctgcagagc	2460
cgggccccac	ctccctgcgc	ccttgagggg	cccagcgctc	tgacgggtga	cgccctgagc	2520
agcaccactg	ctgaggagtc	tgaggactgt	cctcccacag	acctgcagtg	aggggcccctc	2580
catgcgcaga	tgaggggcca	ctgaccaccc	tgcgttctct	ctggaggagg	ggaagctggg	2640
cccaaaggcc	caggaggcca	gcgtgggctc	tgccaatgtg	ggctgcccct	cgcacacagg	2700
gctcacaggg	caggccttgc	tgggggtccag	ggtcgttgga	ggaccccag	ggctgaggag	2760
cagccaggac	ccgcctgctc	ccatcctcac	ccagatcagg	aaccaggggcc	tcctgttcca	2820
cggtgacaca	ggtcagggtc	cagagtgacc	ctcagctgtc	acctgctcac	agggatgctg	2880
gtggctggag	agaccccgca	ctgcagacgg	gaatgcctgc	gtcccttccc	gaccaccca	2940
gctgcagggc	acggggacct	ggatagttaa	gggcttttcc	aaacatgcat	ccatttactg	3000
acacttccctg	tccttggtcca	tggagagctg	ttcgctcctc	ccagatggct	tcggaggccc	3060
gcagggcccc	ccttggaacc	tggtagacctc	ctgtcactca	ctgaggccat	cagggccctg	3120

```

ccccaggcct ggacggggccc tccttccctc ctgtgccccca gctgccaggc ggccctgggg 3180
aggggtgggtg tgggtgtggg aaggggtcct gcagggggag gaggacttgg agggctctggg 3240
ggcagctgtc ctgaaccgac tgacctgag gaggccgctt agtgctgctt tgcttttcat 3300
caccgtcccg cacagtggac ggaggtcccc gggtgctggt cagggtcccca tggcttggtc 3360
tctggaacct gactttagat gttttgggat caggagcccc caacacaggc aagtcacccc 3420
cataataacc ctgccagtgc caggggtgggc tggggactct ggcacagtga tgccgggctc 3480
caggacagca gcactcccgc tgcacacaga cggcctaggg gtggcgctca gacccacccc 3540
tacgtctcat tctggaaggg gcagccctga gtggtcactg gtcagggcag tggccaagcc 3600
tgctgtgtcc ttctccaca aggtccccc accgctcagt gtcagcgggt gacgtgtgtt 3660
cttttgagtc cttgtatgaa taaaaggctg gaaacctaaa aaaaaaa 3707

```

```

<210> 541
<211> 620
<212> DNA
<213> Homo sapiens

```

```

<400> 541
tttttttttt ttttggggag ttgcaacaat tcattctttat ttcttatttt cctctggaga 60
tgagaatttt ggtatatttc accccaggta tatttgggat agttggctcc tcgctgggtc 120
aggatggctg ggtgccttct cccctggcat ggttctcttc tctgcagggc gaggggcagg 180
gagctagtaa aacctcgcaa tgacagcccg caatggcaga cccaatggag ccaggatga 240
acttgggtcaa tccggagaag tccagttgct cccagtgact gcagaagtga ccacaaaggc 300
tgccccgggg aaactccacc cccattgggc aatggccgcc ggggacatca tcttggctgc 360
tatggaggac gaggcgattc ccgcgcgcag ttgaagcccc atggcacttg agcaccatgg 420
gcacagcctg catgggccac caactcttca atcacaactt gtagcaatcc tggccagggg 480
caaaactacg gcagagccag agggcacccc tgaccacttt ggccacactg gtcacttgct 540
gatttagtga gagcagaggg ctcctatgct gctcgggtta attcctggc ttagagagta 600
agagatcctc aacttcagct
620

```

```

<210> 542
<211> 2475
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(2475)
<223> n = a,t,c or g

```

```

<400> 542
agaggggagg aacgatttaa ggagcgaata ctactggttaa actaatggaa gaaatctgct 60
gcaccactgg atattgggag tgtgtggcat gcactctcat catcaggaaa ctctaaaaaa 120
gaaccgagtg gtgctagcca aacagctgtt gttgagcgaa ttgttagaac atcttctgga 180
gaaggacatc atcaccttgg aatgagggga gctcatccag gccaaagtgg gcagtttcag 240
ccagaatgtg gaactcctca acttgcctgc taagaggggt ccccaagctt ttgatgcctt 300
ctgtgaagca ctgagggaga ccaagcaagg ccacttggag gatatgttgc tcaccaccct 360
ttctgggctt cagcatgtac tcccaccgtt gagctgtgac tacgacttga gtctcccttt 420
tccggtgtgt gagtccctgc ccctttacaa gaagctccgc ctgtcgacag atactgtgga 480

```

acactcccta	gacaataaag	atgggtcctgt	ctgccttcag	gtgaagcctt	gcactcctga	540
atthttatcaa	acacacttcc	agctggcata	taggttgca	tctcggcctc	gtggcctagc	600
actgggtgtg	agcaatgtgc	acttcactgg	agagaaagaa	ctggaatttc	gctctggagg	660
ggatgtggac	cacagtactc	tagtcacctt	cttcaagctt	ttgggctatg	acgtccatgt	720
tctatgtgac	cagactgcac	aggaaatgca	agagaaactg	cagaattttg	cacagttacc	780
tgcacaccga	gtcacggact	cctgcatcgt	ggcactcctc	tgcgatgggtg	tggagggcgc	840
catctatggt	gtggatggga	aactgctcca	gctccaagag	gtttttcagc	tctttgacaa	900
cgccaactgc	ccaagcctac	agaacaaaacc	aaaaatgttc	ttcatccagg	cctgcctgtg	960
aggtgctatt	ggatcccttg	ggcacctcct	tctgttca	gctgccaccg	cctctcttgc	1020
tctatgagac	tgatcgtggg	gttgaccaac	aagatggaaa	gaaccacgca	ggatcccttg	1080
gggtgcggga	gagtgtggcc	ggtaaagaaa	agttgccgaa	gatgagactg	cccacgcgct	1140
cagacatgat	atgctgctat	gcctgctcca	aagggactgc	cgccatgcgg	aacaccaaac	1200
gaggttctctg	gtacatcgag	gctcttgctc	aagtgttttc	tgagcgggct	tgtgatatgc	1260
acgtggccga	catgctgggt	aaggtgaacg	cacttatcaa	ggatcgggaa	ggttatgctc	1320
ctggcacaga	attccaccgg	tgcaaggaga	tgtctgaata	ctgcagcact	ctgtgcgcgc	1380
acctctacct	gttcccagga	cacctcccca	catgatgtca	cctccccatc	atccacgcca	1440
agtgaagcc	actggaccac	aggaggtgtg	atagagcctt	tgatcttcag	gatgcacggt	1500
ttctgttctg	ccccctcagg	gatgtgggaa	tctcccagac	ttgtttcctg	tgcccatcat	1560
ctctgecttg	gagtgtggga	ctccaggcca	gctccttttc	tgtgaagccc	tttgctgtga	1620
gagccagcct	tgggttgacc	tattgccagg	aatgtttcag	ctgcagttga	agagcctgac	1680
aagtgaagtt	gtaaacacag	tgtggttatg	gggagagggc	atataaatc	cccatatttg	1740
tgttcagttc	cagcttttgt	agatggcact	ttagtgtattg	cttttattac	attagtttaag	1800
atgtcttgag	agaccatctc	ctatctttta	tttcatctat	atcctccgcc	ctttttgtcc	1860
tagagtgaga	gtttggaagg	tgtccaaatt	taatgtagac	attatctttt	ggctctgaag	1920
aagcaaacat	gactagagac	gcaccttgct	gcagtgtcca	gaagcggcct	gtgcgttccc	1980
ttcagtactg	cagcgccacc	cagtgggaagg	acactcttgg	ctcgtttggg	ctcaaggcac	2040
cgcagcctgt	cagccaacat	tgccctgcat	ttgtacctta	ttgatctttg	cccatggaag	2100
tctcaaagat	ctttcgttgg	ttgtttctct	gagctttgtt	actgaaatga	gcctcgtggg	2160
gagcatcaga	gaaggccagg	aagaatgggtg	tgtttcccta	gactctgtaa	ccacctctct	2220
gtctttttcc	ttcctgagaa	acgtccatct	ctctccctta	ctattcccac	tttcattcaa	2280
tcaacctgca	cttcatactc	agattttctag	aaaagcttcc	tagcttatct	ccctgcttca	2340
tatctctccc	ttctttacct	tcatttcac	ctgttggtcg	ctgccaccaa	atctgtctag	2400
aatcctgctt	tacaggatca	tgtaaatgct	caaagatgta	atgtagnctc	ttgttctctg	2460
tttctctttc	agtat					2475

<210> 543
 <211> 862
 <212> DNA
 <213> Homo sapiens

<400> 543						
gtttttttttg	tggacccccc	tcaaaaacgta	tttattgaat	gacaattttct	tagtacagtg	60
tatactatcc	ccaccaaagg	aaaaaaacat	taagagcaaa	acaaggggtg	gggggtggga	120
atattgctaa	agaaaattct	aataagagtt	atctataatt	atagctttta	tttattatat	180
cttcattcaa	tcattttatat	cacaattagt	ctaattgcat	tcttgatgaa	taactgactt	240
cagcaaagga	gtcaatccac	taagcaaagt	tcataatat	ttttcaagat	gttctctttt	300
cgatcttgag	tctttactct	cctggattcc	caagagaact	gcattagcct	ctagtacagt	360
tgtaatctgt	tgttgctccc	aggaaacctag	acgtaagttc	aagatcta	agccgcaaac	420
cggaccctgg	ttcctttctg	ggtatttctc	tccatccact	tctggctctc	tacatacaca	480
atgaaacttt	ccacaaaat	ctatgtacca	gatcattctc	cacaatatga	aagatccgtc	540
caatgaccag	tttatccttt	gcagggtccc	tctgtgtaag	aggagaatgt	ctcagcatag	600
atgcaaagga	ttccacattt	tttgagaaac	ccttctgtag	gggctccacc	ttctgtagaa	660
gctccgagtg	ccgctccaac	gcgctcgca	aaccgcctgc	gcgcgtctta	ggctccttgg	720
cattggaact	accattttcg	gatccactct	cagtgcttac	accccgaaag	ggcctgaaga	780
agagaaacac	tgcgagaaaa	tggctctcgg	cagccacagc	acgggtccga	cacagcgccg	840
ccatgacttc	tttacctctg	ac				862

<210> 544
 <211> 5656
 <212> DNA
 <213> Homo sapiens

<400> 544

aattccgggc	gccagtcgcc	ctccgcgcgc	cgccgctccg	ctccggctcg	ggctccggct	60
cgcctcgggc	tgggctcggg	ctccgggggg	ggtgtcccc	gtgccgggtc	ccggtatggg	120
tggggacgct	ccaaccatgg	cccgtgccca	ggcgctcgctg	ttggaactca	ccttccagct	180
ctgcgcgcgc	gagaccgaga	ctccgggaagt	tgggtgcacc	ttcgaggagg	gaagtgacct	240
agcagtggcc	tgcgagtaca	gccaggccca	gtacgatgac	ttccagtggg	agcaagtgcg	300
aatccaccct	ggcaccgggg	cacctgcgga	cctgccccac	ggctcctact	tgatggtcaa	360
cacttcccag	catgccccag	gccagcgagc	ccatgtcatc	ttccagagcc	tgagcgagaa	420
tgatacccac	tgtgtgcagt	tcagctactt	cctgtacagc	cgggacgggc	acagcccggg	480
caccctgggc	gtctacgtgc	gcgttaatgg	gggccccctg	ggcagtgtcg	tgtggaatat	540
gactggatcc	cacggccgctc	agtggcacca	ggctgagctg	gctgtcagca	ctttctggcc	600
caatgaatat	caggtgctgt	ttgaggccct	catctcccca	gaccgcaggg	gctacatggg	660
cctagatgac	atcctgcttc	tcagctaccc	ctgcgcaaag	gccccacact	tctcccgcct	720
gggcgacgtg	gaggtcaacg	cgggccagaa	cgcgtcgttc	cagtgcattg	ccgcgggcag	780
agcggccgag	gccgaacgct	tctctttgca	acggcagagc	ggggcgctgg	tgccggcggc	840
gggcgtgcgg	cacatcagcc	accggcgctt	cctggccact	ttcccgtgg	ctgccgtgag	900
ccgcgcgcg	caggacctgt	accgctgtgt	gtcccaggcc	ccgcgcggac	gcgggacgtc	960
tctcaacttc	gcggagttta	tggtaagag	cccccaactc	ccatcgcgcc	cccacagctg	1020
ctgcgtgctg	gccccaccta	cctcatcatc	cagctcaaca	ccaactccat	cattggcgac	1080
gggccgatcg	tgcgcaagga	gattgagtac	cgcattggcg	gcgggcccctg	ggctgaggtg	1140
cacgccgtca	gcctgcagac	ctacaagctg	tggcaacctg	accccgacac	agagtatgag	1200
atcagcgtgc	tgctcacgcg	tcccggagac	ggcggcaactg	gccgcccctg	gccaccctc	1260
atcagccgca	ccaaatgcgc	agagcccatg	agggccccca	aaggcctggc	ttttgctgag	1320
atccaggccc	gtcagctgac	cctgcagtgg	gaaccactgg	gctacaacgt	gacgcgttgc	1380
cacacctata	ctgtgtcgct	gtgctatcac	tacacctgg	gcagcagcca	caaccagacc	1440
ataccgagag	tgtgtgaaga	cagagcaagg	tgtcagccgc	tacaccatga	agaacctgct	1500
gccctatcgg	aacgttcacg	tgaggcttgt	cctcactaac	cctgaggggc	gcaaagaggg	1560
caaggaggtc	actttccaga	cggatgagga	tgtgcccggt	gggattgcag	ccgagtcctc	1620
gaccttcact	ccactggagg	acatgatctt	cctcaagtgg	gaggagcccc	aggagcccaa	1680
tgggtctcatc	accagtatg	agatcagcta	ccagagcatc	gagtcatcag	accgggcagt	1740
gaacgtgcc	ggcccacgac	gtaccatctc	caagctccgc	aatgagacct	accatgtctt	1800
ctccaacctg	cacccaggca	ccacctacct	gttctccgtg	cgggcccgc	caggcaagg	1860
cttcggccag	gcggcactca	ctgagataac	cactaacatc	tctgctccca	gctttgatta	1920
tgccgacatg	ccgtcacccc	tgggcgagtc	tgagaacacc	atcacctgct	tgctgaggcc	1980
ggcacagggc	cgcggtgcgc	ccatcagtgt	gtaccagggtg	attgtggagg	aggagcaggg	2040
cagcaggagg	ctgcggcggg	agccagggtg	acaggactgc	ttcccagtgc	cattgacctt	2100
cgaggcgggc	ctggcccag	ggctggtgga	ctacttcggg	gccgaactgg	cggccagcag	2160
tctacctgag	gccatgccct	ttaccgtggg	tgacaacaag	acctaccgag	gcttctggaa	2220
cccaccactt	gagcctagga	aggcctatct	catctacttc	caggcagcaa	gccacctgaa	2280
gggggagacc	cggctgaatt	gcatccgcat	tgccaggaaa	gctgcctgca	aggaaagcaa	2340
gcggcccctg	gaggtgtccc	agagatcgga	tgagatgggg	cttatccctg	gcatctgtgc	2400
aggggggctt	gctgtcctca	tcttctctct	gggtgccatc	attgtcatca	tccgcaaagg	2460
gagagaccac	tatgcctact	cctactaccc	gaagccgggtg	aacatgacca	aggccaccgt	2520
caactaccgc	caggagaaga	cacacatgat	gagcgccgtg	gaccgcagct	tcacagacca	2580
gagcaccctg	caggaggacg	agcggctggg	cctgtccttc	atggacaccc	atggctacag	2640
cacccgggga	gaccagcgca	gcggtggggg	cactgaggcc	agcagcctcc	tgggggggctc	2700
cccgagggct	ccctgtggcc	ggaagggctc	cccataccac	acggggcagc	tgcacctgc	2760
ggtgcgtgtc	gcagaccttc	tgacagacat	caaccagatg	aagacggccg	aggggttacgg	2820
cttcaagcag	gagtatgaga	gcttctttga	aggctgggac	gccacaaaga	agaaagacaa	2880
ggtcaagggc	agccggcagg	agccaatgcc	tgcctatgat	cggcaccgag	tgaaactgca	2940

```

ccccgatgctg ggagacccca atgccgacta cattaatgcc aactacatag atattcggat 3000
aaaccgagaa ggttaccaca ggtcaaacca cttcatagcc actcaagggc cgaagcctga 3060
gatgggtctat gacttctggc gtatggtgtg gcaggagcac tgttccagca tcgtcatgat 3120
caccaagctg gtcgaggtgg gcagggtgaa atgctcacgg tactggccgg aggactcaga 3180
cacctacggg gacatcaaga ttatgctggt gaagacagag accctggctg agtatgtcgt 3240
gcgcactttt gccctggagc ggagaggcta ctctgcccg cagaggtcc gccagttcca 3300
cttcacagcg tggccagagc atggcgctcc ctaccatgcc acggggctgc tggctttcat 3360
ccggcgcggtg aaggcttcca cccacactga tgcggggccc attgtcatcc actgcagcgc 3420
gggacccggc cgcacagggt gctatatcgt cctggatgtg atgctggaca tggcagagtg 3480
tgagggcgctc ttggacattt acaactgtgt gaagactctc tgcctccggc gtgtcaacat 3540
gatccagact gaggagcagt acatcttcat tcatgatgca atcctggagg cctgcctgtg 3600
tggggagacc accatccctg tcagttagtt caaggccacc tacaaggaga tgatccgcat 3660
tgatcctcag agtaattcct cccagctcgc ggaagagttc cagacgctga actcggtcac 3720
ccgcgcgctg gacgtggagg agtgcagcat cgccctgttg ccccggaacc gcgacaagaa 3780
ccgcagcatg gacgtcctgc cgcgcgaccg ctgctgccc ttcctcatct cactgatgg 3840
ggactccaac aactacatta atgcagccct gactgacagc tacacacgga gtgcggcctt 3900
catcgtagcc ctgcacccgc tgcagagcac cagcccgac tctgggggc tgggtctacga 3960
ttacgggtgc acctccatcg tcatgctcaa ccagctgaac cagtccaact ccgcctggcc 4020
ctgcctgcag tactggccag agccaggccg gcagcaatat ggcctcatgg aggtggagtt 4080
tatgtcgggc acagctgatg aagacttagt ggctcgagtc ttccgggtgc agaacatctc 4140
tcggttgtag gaggggcacc tgctggtgcg gcacttccag ttccctgcgt ggtctgcata 4200
ccgggacaca cctgactcca agaaggcctt cttgcacctg ctggctgagg gggacaagtg 4260
gcaggccgag agtggggatg ggcgcacat cgtgcactgc ctaaacgggg gaggacgcag 4320
cggcaccttc tgcgccctgc gccacggtcc tggagatgat ccgctgccac aacttgatgg 4380
acgttttctt tgctgcaaaa acctccgga actacaaacc caacatggtg gagaccatgg 4440
atcagtacca cttttgtac gatgtggccc tggagtactt ggaggggctg gagtcaagat 4500
agcggggccc tggcctgggg caccactgc aactcaggg ccagaccac catcctggac 4560
tggcgaggaa gatcagtgcc tcctgctctg cccaaacaca ctcccatggg gcaagcactg 4620
gagtggatgc tgggctatct tgcctccctt tccactgtgg gcagggcctt tcgcttgtcc 4680
catggggggg tggtgggcca aggaggagct tagcaagtct gcagcccagc cccacctcca 4740
tagggtcctg caggcctgtg ctgagaggcc tgggtgctgc tggcagagtg acaaaggctc 4800
aggacggctg gctctggggg actcaggcca agcccttgg caccatcctg gcttttgga 4860
gggatgagtg aggcctgca gagagcatcc caggccaagg ttccactca gcctgcccc 4920
tctgcatgtg ggtagaggat gtactgggac ttggcattta ggattccatc tggcccagcc 4980
cctgaaggte ctggggaagc aggtctcaat tctgaatagc cagtggggca cactgactgt 5040
ccctccccag ggaactgca gcgcccctcc tccccactgc cccctgcaac cccctgagat 5100
attttgcctc ctatcccctc ccccacttgc ttccctgata tgtgctctga gcttccctga 5160
accaggatct gcctattact gctgtgcccc atggggggct ccttccctgc ctgacctact 5220
gttgagaat gaagtcacct cgccccctc ttcccttaat cttcaggcct cactggcctg 5280
tcctgctcag cttggggccag tgacaatctg caaggctgaa caacagcccc tggggttgag 5340
gcccctgtgg ctccctgtca ggctgcccg tgtggggagg ggcagtgtta gagcagggtc 5400
ggtcatacc tctggagttc agaggaagag gtaggaccag tgcttttttg tttcttttgt 5460
tatttttggg tgggtgggtg ggaaggtctc tttaaaatgg ggcaggccac accccattc 5520
cgtgcctcaa tttccccatc tgtaactgt agatatgact actgacctac ctgcagggg 5580
gctgtgggga ggcataagct gatgtttgta aagcgcttg taaataaacg tgctctctga 5640
atgcctaaaa aaaaaa

```

<210> 545

<211> 2735

<212> DNA

<213> Homo sapiens

<400> 545

```

tttttttgtt ttttattttt tctttttaag tttgattttt tttatttcaa aatgctttgc 60
aattaaatga attactgttc agaagtctcc cacttttcat acaaaaatac tgtgctactg 120
atacagttga aaaaattcaa tgatgtctct cctgcaggag aaattcacag catccccagg 180

```

```

gtcaacatga aatctggccc tgtcccccgc actgggggct cccagggcct gcgttcctga 240
taaactggga caggttttcc aggcactgac caactatcca ccaaggggcc tctgcctcca 300
agacagaccc tgaatcaata gcagcaactt tcccataatt catgtaggga tatgtggagg 360
gggacaggaa ctctcccatt tcccagctg ggcctactac ctgcctgccc tgttcaactct 420
gggtgccatga ggcaggttca gtgattgatt ggtcttgctt gctgcagagg acctggccag 480
ctccagaagg gtcactcatc aggtcctgca aaggtctgta tcattaatca gtgtcatcag 540
tgtcctcaga agacactagc agagtccagg gtgatgcgtt cagccacaag cacaaagact 600
gcttttttcta aagagcagga tgaggtgaat gtgggaaacgg aaagcagttg tcacgaaggc 660
tgtgtggctc tgctggggga gaggcatcca cagtctgtgc caaggaggta cctcacctg 720
tgagcagga gcttaaggc caaaaaacaa aaggggccaa cagaaaacag ctgaggtgat 780
ggggggagga gcagcaagaa aaaacgacaa ccgagaccaa ctgaagggtt gggtcaggaat 840
gcaggctctt ccgtctatac agtgtttaa aagatccaaa tgtgactgag atcattccag 900
cctgcacttt ttattttagt gcagaaggaa cgggataggt tgaggggcat gacgggggct 960
ctcgccacct ctgtctgca cctctggaac aggtgggagc cgaatcattc aagtcctacc 1020
tggtcagact cccaaccacg ctgaggcagg cccttacctt ggattgcctc atgggcctcc 1080
ctcttgaaaa agaccctcac tctgtttgga aaagatccct tagcagccat aatcaggaaa 1140
gagacttag agcgagccca gggcttcccc aaggcgatt ttctgtcctg ttttcagctg 1200
gaaattgaag tccttggggg cctcgaagat gaccagatg gtggagccca ggttgaaact 1260
cgccccaggt gctcgccct taacgccatg gggacgacct ctctattggt gtgcgtcacg 1320
aagctgaagt cattgtagga gcccttgctg tgccttgggc tgtttgtgtg cagggtcccg 1380
tcaaagtaga tgcgaatgga gccccagttg ggtggcccc acagctgtca gtgagaagaa 1440
gccatgtttc cagtcccccg tcaggaccac ccgctcgta tggcagaaga gctctttgat 1500
ccagcgagcc atgccagggt tcaactgacat caggagacct gggaaagtggc gccgggtggga 1560
cacagtccag tcggtggggg agtggaagca gtggtagtcc ccaggggcca ggtagatgac 1620
acagtgatag agtcattcc cttcccgggt gaccagctgg ttcttgaagg agtcacacga 1680
cgcggtggtt gggaaaggca ggtcctctgt gcacatacgc gggcccagga acgactccag 1740
ggagtaggtg acccccttta cctgtccac ctcacagttc ttcacctgcc caaagttgag 1800
gatccttcca tccgatgggc taatcacgt gtgcaggcca cagacaggcc gggcctgcgg 1860
cttcagcttg cgccggaaga actcgctgag gttgcgtag tgatgcagg cctccacagc 1920
ggcctctttc atgttccacc caaacgtcca gatgtacagg ctgtagacgg gcctgcgcag 1980
ccagtgtggc agtccacct gattgaggcg acccaggcc cgtgacagca agcggttg 2040
cactgacttg tacaaagcca ccctgcttac gggcctccat cccaccggc tgagcggtct 2100
gagggcgccg aagggcagga ggtagtagag gacggtcaag ggccaggagc gcagtttcag 2160
agcggtctg gacatgcagc tcagctgccc cagcctccgc ctgaggcca gctgggggaa 2220
gtgcaacat ttccgcgcgc ggagctctgg tcttgccgc gcctctgact gacacatcat 2280
gggcccgcgc agggaggggc gggcgaggct cactcgatca ctccctttgt tttcctcttt 2340
cctcccttcc ccccgagcca gcagatctcc tgtgtgtca ctgctccagg gcctctgcct 2400
ctgcgaggct ggttgggtgg gccgcttcc tgggttggtt cagtctcggt ggtcacagg 2460
gtgcagaata gaggtcagg gccgcgccg gcaggagata agatgtggag gaagtgcag 2520
cacgcagccc gggccgtgcc cactggggga cgaaaaaaa gccacgact cgtcaacct 2580
tgtccgcggg gctcctcagg ccggggccgc gtcgtcacag ctgggagagc ccacctgcga 2640
ccgaaggccc tagaagggca cccccaccg gcactggccc tctgagcggg cagggtgggg 2700
cgctccctg agaagtcacc tggggctcca cgaaa 2735

```

```

<210> 546
<211> 4146
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(4146)
<223> n = a,t,c or g

```

```

<400> 546
gagacatggc ccgggcagtg gctcctggaa gaggaacaag tgtgggaaaa gggagaggaa 60

```

gccggagcta	aatgacagga	tgcaggcgac	ttgagacaca	aaaagagaag	cgttcctctc	120
ggatccaggc	attgcctcgc	tgccttcttt	tctccaagac	gggctgagga	ttgtacagct	180
ctaggcggag	ttggggctct	tcggatcgct	tagattctcc	tctttgctgc	atctccccc	240
acgtcctcgt	tctcccgcgt	ctgcctgcgg	acccggagaa	gggagaatgg	agagggggct	300
gccgtcctc	tgcgcctg	tgcctcctgt	cctcgccccg	gccgggtgctt	ttcgcaacga	360
taaattgtggc	gatactataa	aaattgaaag	ccccgggtac	cttacatctc	ctggttatcc	420
tcattcttat	cacccaagtg	aaaaatgcga	atggctgatt	caggctccgg	accataacca	480
gagaattatg	atcaacttca	accctcactt	cgatttggag	gacagagact	gcaagtatga	540
ctacgtggaa	gtcttcgatg	gagaaaaatga	aaatggacat	tttaggggaa	agttctgtgg	600
aaagatagcc	cctcctcctg	ttgtgtcttc	aggccattt	ctttttatca	aatttctctc	660
tgactacgaa	acacatgggtg	caggattttc	catacgttat	gaaattttca	agagaggtcc	720
tgaatgttcc	cagaactaca	caacacctag	tggagtata	aagtcccccg	gattccctga	780
aaaatatccc	aacagccttg	aatgcactta	tatttgcctt	tgcgccaaag	atgtcagaga	840
ttatcctggg	attttgaaag	ctttgacctg	gagcctgact	caaatcctcc	aggggggag	900
ttctgtcgct	acgaccggct	agaaatctgg	gatggattcc	ctgatgttgg	ccctcacatt	960
gggcgttact	gtggacagaa	aacaccagg	cgaatccgat	cctcatcggg	cattctctctc	1020
atggtttttt	acaccgacag	cgcgatagca	aaagaaggtt	tctcagcaaa	ctacagtgtc	1080
ttgcagagca	gtgtctcaga	agatttcaaa	tgtatggaag	ctctgggcat	ggaatcagga	1140
gaaattcatt	ctgaccagat	cacagcttct	tcccagtata	gcaccaactg	gtctgcagag	1200
cgctcccgcc	tgaactaccc	tgagaatggg	tggactcccg	gagaggattc	ctaccgagag	1260
tggatacagg	tagacttggg	ccttctgcgc	tttgtcacgg	ctgtcgggac	acagggcgcc	1320
atttcaaaaag	aaaccaagaa	gaaatattat	gtcaagactt	acaagatcga	cgtagctcc	1380
aacggggaag	actggatcac	cataaaaagaa	ggaaacaaac	ctgttctctt	tcagggaac	1440
accaacccca	cagatgttgt	ggttgcaagta	ttccccaaac	cactgataac	tcgatttctc	1500
cgaatcaagc	ctgcaacttg	ggaaactggc	atatctatga	gatttgaagt	atacggttgc	1560
aagataacag	attatccttg	ctctggaatg	ttgggtatgg	tgtctggact	tatttctgac	1620
tcccagatca	catcatccaa	ccaaggggac	agaaactgga	tgcctgaaaa	catccgctg	1680
gtaaccagtc	gctctggctg	ggcacttcca	cccgacctc	attcctacat	caatgagtgg	1740
ctccaaatag	acctggggga	ggagaagatc	gtgaggggca	tcatcattca	gggtgggaag	1800
caccgagaga	acaaggtgtt	catgaggaa	ttcaagatcg	ggtacagcaa	caacggctcg	1860
gactggaaga	tgatcatgga	tgacagcaaa	cgcaaggcga	agtcttttga	gggcaacaac	1920
aactatgata	cacctgagct	gcggaacttt	ccagctctct	ccacgcgatt	catcaggatc	1980
taccccgaga	gagccactca	tggcggactg	ggcctcagaa	tggagctgct	gggctgtgaa	2040
gtggaagccc	ctacagctgg	accgaccact	cccaacggga	acttgggtgga	tgaatgtgat	2100
gacgaccagg	ccaactgcca	cagtggaaac	ggtgatgact	tccagctcac	aggtggcacc	2160
actgtgctgg	ccacagaaaa	gccacgggtc	atagacagca	ccatacaatc	agagtttcca	2220
acatatgggt	ttactgtgga	atgttgctgg	ggctctcaca	agaccttctg	ccactgggaa	2280
catgacaatc	acgtgcagct	caagtggagt	gtgttgacca	gcaagacggg	accatttcag	2340
gatcacacag	gagatggcaa	cttcacttat	tcccagctg	acgaaaaatca	gaagggcaaa	2400
gtggctcgcc	tgtgagccc	tgtggtttat	tcccgaact	ctgcccactg	catgaccttc	2460
tggatatcaca	tgtctgggtc	ccacgtcggc	acactcaggg	tcaaaactgcg	ctaccagaag	2520
ccagaggagt	acgatcagct	ggtctggatg	gccattggac	accaaggtga	ccactggaag	2580
gaagggcgtg	tcttgcctca	caagtctctg	aaactttatc	aggtgatttt	cgagggcgaa	2640
atcggaagag	gaaaccttgg	tgggattgct	gtggatgaca	ttagtattaa	taaccacatt	2700
tcacaagaag	attgtgcaaa	accagcagac	ctggataaaa	agaaccaga	aattaaaatt	2760
gatgaaacag	ggagcacgcc	aggatacga	ggtgaaggag	aaggtgacaa	gaacatctcc	2820
aggaagcccg	gcaatgtgtt	gaagacctta	gaacccatcc	tcatcaccat	catagccatg	2880
agcgccctgg	gggtcctcct	gggggctgtc	tgtgggtcgt	tgtgtactg	tgcctgttgg	2940
cataatggga	tgtcagaaa	aaacttgtct	gccctggaga	actataactt	tgaacttgtg	3000
gatggtgtga	agttgaaaa	agacaaactg	aatacacaga	gtacttattc	ggaggcatga	3060
aggcagacag	agatgaaaag	acagtcaaag	gacggaagtg	gaaggacggg	agtgagctgg	3120
ggagctgttg	atcctttcact	atacaggctg	ggaagtgtgt	tgatgaccac	tgagccaggc	3180
ttttctcagg	agcttcaatg	agtatggccg	acagacatgg	acaaggagct	gtgttcacca	3240
tcggactcat	gtgcagtcag	cttttttctt	gttggtttca	tttgaataat	cagatctctg	3300
tgttgagacc	aagtatgatt	gacataatca	ttcatttcga	cccctcctgc	ccctctctct	3360
ctctctcctc	tcccctttgt	ggattctttt	tggaaactga	gcgaaatcca	agatgctggc	3420
accaagcgta	ttccgtgtgg	ccctttggat	ggacatgcta	cctgaaaccc	agtgccaga	3480
atatactaga	atcaccgcat	ttcagtgga	tccatgaagt	gtacttgtgt	ataattgccc	3540
gcgtcgtgca	taggcaaaga	aggattaggc	tgttttcttt	ttaaagtact	gtagcctcag	3600
tactgggtgta	gtgtgtcagc	tctgtttacg	aagcaatact	gtccagtttt	cttgetgttt	3660
ttccgggtgtt	gtactaaacc	tctgtcttgt	gaactccata	cagaaaaacg	tgccatccct	3720
gaacacgggt	ggccactggg	tatactgctg	acaaccgcaa	caacaaaaac	acaaatcctt	3780
ggcactggct	agctctatgtc	ctctcaagtg	cccttttgtt	tgtactgggt	catttgtgtta	3840
cattaacgac	ccactctgct	tcttgcgtgt	gaaagccctg	ctctttaatc	aaactctggg	3900

```

ggccactga ctaagaagaa agtttatttt cgtgtgagat gccagccct cggggcaggc 3960
aagggctctg aagatttggg caacgtgggc ttaaattggt ctgctttttc tgtagttaa 4020
tttcatgttt cttgnacct tttgtataa agctgcaata ttctcttta ttgttcnttt 4080
catatggaat gtaatttctc gtgccaatt cctgcaggcn aatcaattaa aatccccccg 4140
gcgccc 4146

```

```

<210> 547
<211> 1348
<212> DNA
<213> Homo sapiens

```

```

<400> 547
ggcacgaggg cagtgccttc acctggggcca gccactacca ggagagactg aactccgaac 60
agagctgcct caatgagtgg acggctatgg ccgacctgga gtctctgcgg cctcccagcg 120
ccgagcctgg cgggtcagtg tgtggagggg agggactggg tggaggggaa ggcaggataa 180
tgcagtgggg ggcattggtg agaggggaaa gggcccttg actgaggggc tctgctccca 240
ggctctcaga acaggagcag atggagcagg cgatccgtgc tgagctgtgg aaagtgttgg 300
atgtcagtg cctggagagt gtcaattcca aagagatccg ccaggctctg gagctgcgcc 360
tggggctccc cctccagcag taccgtgact tcatcgacaa ccagatgctg ctgctggtgg 420
cacagcggga ccgagcctcc cgcattcttc cccacctcta cctgggctca gagtggaaacg 480
cagcaaacct ggaggagctg cagaggaaca ggtagggtta tgagccctc gggccacca 540
ccccatcttc ccttctcctg gcctccccgc attgggtggt agccagcttc aaaaaccct 600
ggaccacctc cagcagctgc tagctctgct tctaactctg tctggggct gttgccctgg 660
tgtgggctcc caggtgggga caggagacct gctggccagc cccgcccac tctctcccc 720
catccacact gtgaaacaag gacagaaaca aagggcctca gccacgcaa gacgagaagc 780
agcagcgcac actgctgtta ctgccttgg caagcagaaa aaggctcctc ttgaatgcgc 840
ctgtggggcc agctacttgg gaggtgagg caggaggatc gcttgagccc tggagattga 900
ggccgcagtg agccgtgatc acgccactgc actccagcct gggcaacaga gagagacct 960
gtctctaaaa aataagaaaa aagaaagaga gaaaaagcct tttctccacc ttgccctgtc 1020
tcagggaaga aggaactgcc cttctccccg tggggacctg gctgcctgct ctgacaggta 1080
cctgtcatct gccaccatg ggcttctggg acctgctgta gccctgcca cccactgctg 1140
cagaccacc cactctcagc ttagctcaaa agctgttctc taactcattt ctgagaataa 1200
ctgaagggtc ggagttgcag ttggcccagc tgtctggacc agatggggaa acaagcccag 1260
cagggcaaga tgattggtct aaggctgcag ccaggtgaca gctgggtcac ttctcctccc 1320
actgtcactg ctgcctccat ctgacttg 1348

```

```

<210> 548
<211> 1864
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(1864)
<223> n = a,t,c or g

```

```

<400> 548
tttttttttt ttttaaaaca tgtggtactg gtgtattgac agtaatgtcc acgaaacaga 60

```

atgaaaaccc	ccaaattaca	ttaggtttac	actgggagtt	agcaaaacaa	aagggcagca	120
ttaaccgaca	tacagcacgt	gggaggatgg	tggaaaagct	ggacatgact	cactggacat	180
ttcaactgaa	accacagagg	ttcttgaaaa	tgctggagaa	ttccctgatt	gccttatcag	240
ttacaaaacc	aaattcagaa	tcagtgtgaca	gctggatata	ttcaactgta	cgtacaaata	300
atgatcaaaa	aacacaaaag	ttgggtagtg	gttaccatag	cttttactgt	agttattcat	360
taagctattc	aactgtttctg	tgcagtttga	tgtttttattt	tacaataaaa	agtcaaaaaa	420
aataagcaaa	aagataaact	ggaaaataag	acttacatct	catatatatg	gacaaaggac	480
caattacctc	caaacataaa	cagctcctag	aaattactgc	aaagatcaac	aaccagtag	540
aaaaatgaat	gaagttccca	gaacagaaaa	cacaagtggc	ccttcaaaaa	aatgaagaga	600
ggctcagcct	cttatggtaa	gacaaagaga	caggatttta	aaaacctagg	cctcttccta	660
gagttccctt	aaatatctag	gccagatcat	ttttacttcc	tggcttagac	cctgccagg	720
gctgccagc	tactcaggtg	tttgtgtcct	tgtggactca	agtcataattg	tcctgatctt	780
ttggctgagt	acggttttct	cctccagcaa	agacaatttg	gaggatgtac	taagcatgaa	840
gcgctacttc	ctggccccc	tctctcttcg	cacagtgttc	catcatccag	ccatgaaagc	900
acagctgagt	gatccaagag	gcagttccaa	ttgttgacta	acgtgtacct	gcctatgtga	960
gtgtgtccta	tgggaactca	ggccttagaa	tggtttcaaa	gtagtggcct	tcaaaattac	1020
tgtttgccct	ttcaaacttc	acacctaagg	aaaatggaaa	catgcagagc	agggacacag	1080
aaggggcatt	agctggcggtg	gggtaggggc	aagagctaat	tgtgaaggaa	gaaggcctga	1140
gatcacgtag	ccatgtcgga	gaacagctgt	gctcgctgcc	ctgcctcttt	gcgcgcagtg	1200
caggcagccc	caggctccag	ctgcttgagt	ttctcttgga	gtccccggag	ctggcttcga	1260
ccccagtcaa	tgcggttctg	gaggctggct	atgtctgcgg	ccagctgcag	gccatcccgg	1320
aagcttgctt	gagcctgacg	tagactgtga	ggaactagga	ttccaaacca	gttcaggggg	1380
tcctgagggg	cctcagagga	ctccggttct	ggggctctag	tggggccctt	gcgcctccgc	1440
agacctgctt	cgcgaggccc	cacctcctct	ggggcggtga	caccagctct	caccaccttg	1500
aacttctgga	gtccctcctg	ggcctcgctg	gcgtggaggc	agacctgggg	ctccatgttg	1560
gaagcatact	gcagggggccc	taccgacttg	gcgccatcg	cgtagcgagc	cttggcgagc	1620
gagagccagc	cctcctccac	ccgggcgttc	aacaccgttc	gtttcccttc	cagctcctcc	1680
aggtccccaa	gcagctgcag	gaccagcgaa	tccagctccg	ctcgcaggtc	aagcgccgcc	1740
atggacacac	ctccagatct	ggagccacct	tcttccttgt	cacctccgc	agtttggcag	1800
gacanccaat	aggcacacga	gatcctccat	caagggcggt	tcccagctctg	gggatcccca	1860
nggc						1864

<210> 549
 <211> 649
 <212> DNA
 <213> Homo sapiens

<400> 549						
cattctgatg	ttggagcggc	cacagctgtc	ttgcccctcc	tcacggccgt	gttgggtggt	60
accgtgggtca	cccgcagggg	cacggagggg	ccaggcagag	cagccctagt	tcacctcacc	120
gggagccccc	gccagaaggt	gggcacctct	gggagggagg	gactgccagg	ccttgggggt	180
tcctgtgctg	agtcagagct	ggaacgggag	acgcaggagc	cccgcagccg	cgggaggtgc	240
atatttgggg	ctgccagggtg	gcgccagggtc	cccttggtcca	gccccagcg	cccctttctt	300
ctgtccccag	ggcctcggct	tcacaggatg	gggctgccag	tgtcctgggc	ccctcctgcc	360
ctctgggttc	taggggtgctg	cgccctgctc	ctctcgctgt	gggcgctgtg	cacagcctgc	420
cgcaggcccc	aggacgctgt	agccccagg	aagagggcgc	ggaggcagcg	ggcgaggctg	480
cagggcagtg	cgacggcggc	ggaagcggtg	agtgccaaag	tgtcccgggg	accaggggtg	540
ggtccgcagg	ggaccgacca	gccttcctcg	ccccagttcc	ctactgaagc	ggacccacct	600
ctgtctccctc	agcaagtcgg	acaccagact	gcacgagctg	caccagggc		649

<210> 550
 <211> 696

<212> DNA
 <213> Homo sapiens

<400> 550
 tttttttttt ttaaagggttt gcatgtttat ttataattac aattttacatt actccaacag 60
 aggagccccc ttgctatgtt ctaattctta gccattaagt cctacaaaaa taaaccaag 120
 cttttacagt aacttaatca atacagaact aaagccttta tagctattag aggggttttag 180
 ttaccaaggt gcttattttc gacaaaatgc cctgtcactc agaggacgca tgcgtatact 240
 aaagttctga cccatcgact catgcaacaa atgtagacct caccctccct ccaccactg 300
 ttacaacaca aacacaaaac aacgatgtac aacagagggg aaatatgtct ttggtcaact 360
 gaccttgtag aaaagactgg cttgtttcca agtggatgag aacgccagtg tgtggccaga 420
 gtccagcaat gactgaccgg cccagggtcag aggtctggcag ggaccacaga agggccaagg 480
 cgctgccggg gctcatccca ggctccaacc ccaacctgga agcttctgga caccaggctc 540
 tgtgcagcag ctccgtggct agcgtccagg gccctggcc actactocca aatgcttcta 600
 gtccaccac ccctggccag ccccaacctt gacatcactg tggatgccat cagggtggtc 660
 tggttcactt atacaacatg atccatgggc tcgtgc 696

<210> 551
 <211> 1037
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(1037)
 <223> n = a,t,c or g

<400> 551
 taaaaagtga ggatcttttc ctttcttgta agttagaaga aataacctct tcagttaaac 60
 cttcagtga ggttctttta gttttctgtt ctgctttcta aaaacataga ctctgttctt 120
 tagagcaact tatgactctc atctctgctg cacgagaata tgagatagag ttcacttatg 180
 cgatctcacc tggattggat atcacttttt ctaaccccaa ggaagtatcc acattgaaac 240
 gtaaaattgga ccagggtttct cagtttgggt gcagatcatt tgctttgott tttgatgata 300
 tagaccataa tatgtgtgca gcagacaaag aggtattcag ttcttttgct catgccaag 360
 tctccatcac aaatgaaatc tatcagtacc taggagagcc agaaactttc ctcttctgtc 420
 ccacaggtat tgtatataat ggctttacat ttaactagtc ttcttggaat atataactta 480
 taaaggacca tgggccccat tctctctcca cttccctcct cctttgggtg gtaaaagtag 540
 gaatcttttt ttagaagaca tttttcaaga tcctaaattg gagaaatttt aggaactaat 600
 aaatgacaac tgactaggca aaagattttt atgtattttt aagtactgga agtatatgaa 660
 cattacattg tcaatattaa aagagggata gtattgaaat gaaaactgga gaaaaaccaa 720
 attacattgc ttttacctta gtcacttctc atttccctct acttgtcccc tttttctgcc 780
 catgcataac tgtccctttt tgcactctcc ccaactccat ctgggctctt atttcaagta 840
 gtcagcatag aaagcttaac agtttttccc gttttccctt cttntgccc ctctggtttc 900
 tttcattgaa aatatttttag tctcttagtt gcttctcaaa attcaactta cagggaagtt 960
 tccccacact tctttgtca ggaagaattt tagattaaat tatttaactt tctttgtgtg 1020
 tatgtgagcc gagaacc 1037

<210> 552

<211> 813
 <212> DNA
 <213> Homo sapiens

<400> 552
 gccagtgggg cagcaaaggc cccttggggg aacaaagggt ggatgtggaa ggccagggga 60
 gccccggggc gagagtgggg gcagatggag gctcgggaag atcagtattg aggaccatgt 120
 agggggggagg gggccgggaa gggacctggc tggggaatga gaaaacctgg ggccatcgtc 180
 aaccagaga cttgggtttg cagggtgaagg gtatcgggcc gtccatccct ctagcatgct 240
 tctcacgact tgcattctta cccactagac ttctgcactg acccaggggc tggagcgaat 300
 cccagaccag ctccggctacc tgggtactgag tgaagggtgca gtgctggcgt catctgggga 360
 cctggagaat gatgagcagg cagccagtgc catctctgag ctggtcagca cagcctgcgg 420
 tttccggctg caccgcggca tgaatgtgcc cttcaagcgc ctgtctgtgg tctttggaga 480
 acacacactg ctggtgacgg tgtcaggaca gagggtgttt gtggtgaaga ggcagaaccg 540
 aggtcgggag cccattgatg tctgagcctg ccggaggggc agggctcggag aagcggattg 600
 ggtcctgggc ctctgtgatg aggcaggcac acctgtcggc cttggcttgc tgctagaact 660
 agggccttct gctcgccac cccccaccc tacctggacg ggcccaggct tggggactct 720
 gagctgtgtt aaggagaaca agggcaagga gacctccct tgtgctccct cactccctaa 780
 taaacatgag tctgatgttc tccccaaaaa aaa 813

<210> 553
 <211> 1451
 <212> DNA
 <213> Homo sapiens

<400> 553
 tttttttttt ttgaagttca aatgtatcaa attattaaaa atgcagcatt tttcacatga 60
 gctttaaaga tgtggaagat ggggtacaat taaaaccatg agagtgtgtc agggaaacagc 120
 cgtagggcct gtttgacact tcagatattg cctgtctcca aaaattcaga cccccagatg 180
 cagggcaaga caataagaaa ggggtgagtgc aagcaaggag agcctcctgc taagaggctg 240
 aggtcccttc tggttccaag gatgggatgt cagccttgac cttccggggc ctgcagtggc 300
 cagaggctgc ctgtcgcccc ttctctctcc ccttcttggg cactgtggga gcttctgggt 360
 cctgtcggag gctggtcccc tcaggccgct ggggttcagt cctcttagga aggtctctct 420
 ttgcccttgc tgtcctggaa ggggccttgc ttggaggcaa agcgtctctc actctgtcct 480
 caggactcag ctgtgtggcc ttggatttct ttttgcggga cttgcgccct gcaggacact 540
 ggtgttggag ttggagggtc ctatcctgcc caggggtgac tcccagggtt gcagggggat 600
 aggggtggaga aggggtgctgt agcccttgca ggcgtgaagt cctttctgct ctcttagcct 660
 attacattag gtagactta cctttgggtg ccaacggtcc aggatcccc taaaatggga 720
 tggggataat tcaggaatca gcctgggttg gcacaggggc ggtattcctt ggagaggcag 780
 gactcacaca caccatcca gatcagtgtg gcttctccct taggaagcct ctaggacatc 840
 cccatgtta ggtccacat cagcaaagct gctctgccct tggctacttt cacttgggct 900
 acctgccttg ggctacttcc actagctgca actctgggac gcattgggtg ggagggatgt 960
 gacctcagg aacagtgtgg tccttggagg gtctagacag accctgagca tcaccacccc 1020
 agttattgtg accccacgtt tccacccatc agcctcctgg ggtctctgcc tgtgtgaaca 1080
 gtagggccca acctggaacc agatggtacg gccatgccgg tcctgcaggg agctcatgcc 1140
 tggcatgcca tagcagcga gccaggctcg aaaggcagca aagtcctcct cccgcctctc 1200
 tgaccctgag cctttgcccc ctgtgggaca gaggaacagg cagagatcag agggcaggct 1260
 caggttggga ggagtgggga gcctggttag acctggccca gacctcagct acacaagctg 1320
 atggactgag tcaggggcca cactctccct cctctggtga tgtgacctca gctggtttct 1380
 tccactcgg ccattgggtt cccatcctgg agtgggatta agaatccttg tcttggccct 1440
 gtgcagtggc c 1451

<210> 554
 <211> 1663
 <212> DNA
 <213> Homo sapiens

<400> 554
 ctctggccac tgaaaaactt ctactataa agcatgtatt caaggattac caatgcaaat 60
 gggcagcaat taacctggag accccatgcc tatggcagtc tcaagaacgg aactagagat 120
 gctatgtttg aaaatcgacg catgattaaa gcgatacttc tggaagcatg cagggcaggc 180
 ggccccggcca tgacgcacag actctgtaca gccctgcaga cctcagccac catgctaaca 240
 ggcggacact tttaccatgc aatcaagggc acgggatcag ctgctttggg aagacttatt 300
 tccaccccct ccagtctctc aggctggagc gcagtggcgt gatctcaact cactgcaacc 360
 tctgcctcct aggttcaagc gattcttctg cctcagcctc ctgagtatgt gagactacag 420
 gcacgcacca ccacgcccag ctaatgtttg tatttttagc agagatggag tttcaccata 480
 ttggccaggc tggctctgaa ctcccgatct cgtgatctgc ctgcctgggc ctcccaaaga 540
 gctgggatta caggcgtgag ccactgcgcc cagccaggaa gactttcttc atggcaaaca 600
 gtgggttctt tcaggggaca tttctgtaat gtacaaaaga acctgcaaaa acaaaagcac 660
 ctagggagac agaagactgg gaaaggccca tgaaggcgag agctctctca gtaatggagg 720
 aaactaatag gactgctgct aatggagccc caggtgagcc ctgggattgc aaggccaccg 780
 ctggcacagg caaccatgct tgtgtggagg tgcaggcgtg agcccttctg caagggggct 840
 ctctgccagc acccatgcag ggctcagaag ggggcctggc tgtggatctt gctgggttcc 900
 agcagcacag agggccactg gcctctgacg caacatacgc ctggggaagt gtgcaggccc 960
 agcggagaca gaactgccaa gagtctggac tcacggtagt cttcagactc gtccaggatc 1020
 tcggacctga tgatctctc gatcacgtcc tccagggtga ccaggcccag gacctcgtag 1080
 aaggggtcgc cttcaccctc gttgttcacc ttctgcacga tggccagggtg ggacttccct 1140
 gtggggggag gacactcatg gaacagcttg ctgggcccc ccagtttga ttcactctcc 1200
 ctggtatagg cccacccaaa ggacacggct aacgttcatg ctctacaac gtgccaggca 1260
 cagagccaca ctcttttcta ggtttttact taagactccc agcgtgatta tgagaactgg 1320
 ccttattttc acacagggtg aaaatgaagc agtgggctca tgcccatctg cacaaggccc 1380
 cccaggcaga gctggcagag ctgggatcca gctccaggtc cgtgcacctc catgacatgg 1440
 atgcagttta gacaaggatg cctccctcca gtggagaaca caaatgcctc acacatcagc 1500
 cagcctgcac atgcaggcta acaagggcac tgactctgga aacacaggct ctctgcgac 1560
 agtccacacg gggcagctga gtggggccac ccagcctgac tgtccttggg aggatttctt 1620
 aagtcttttt cttcttaaag taaatatata tgcgtgccat cct 1663

<210> 555
 <211> 1040
 <212> DNA
 <213> Homo sapiens

<400> 555
 gcattggaatt cggcacgagg agctgtgtca ccactgtggg tccctgggtg tttcctcacc 60
 ctgtccgtga cgtggattgg tgctgcaccc ctcatcctgt ctcgattgt gggaggctgg 120
 gactgcgaga agcattccca accctggcag gtgcttgtgg cctctcgtgg cagggcagtc 180
 tgccggcgggtg ttctggtgca ccccgagtgg gtcctcacag ctgcccactg catcaggaag 240
 tgagttagggg cctgggggtct ggggagcagg tgtctgtgtc ccagaggaat aacagctggg 300
 cattttcccc aggataacct ctaaggccag ccttgggact gggggagaga gggaaagtcc 360
 tggttcagggt cacatgggga ggcagggttg gggctggacc accctcccca tggctgcctg 420

ggtctccatc	tgtgtccctc	tatgtctctt	tgtgtcgctt	tcattatgtc	tcttggtaac	480
tggtctcgg	tgtgtctctc	cgtgtgacta	ttttgttctc	tctctccctc	tcttctctgt	540
cttcagtctc	catactctcc	cctctctctg	tccttctctg	gtccctctct	agccagtgtg	600
tctcaccctg	tatctctctg	ccaggtctctg	tctctcggtc	tctgtctcac	ctgtgccttc	660
tccctactga	acacacgcac	gggatgggcc	tggggggacc	ctgagaaaag	gaagggtttt	720
ggctggggcg	ggtggctcac	acctgtaatc	ccagcacttt	gggaggccaa	ggcaggtaga	780
tcacctgagg	tcaggagttc	gagaccagcc	tggctaacat	ggtgaaaccc	cgtctctact	840
aaaaatacaa	aaaaaaagta	gccaggcatg	gtggcgcatg	cctgtagtcc	cagttactca	900
ggagactagg	gcaggagaat	tgcttgaacc	tgggaggcaa	aggttgagct	gagccgagat	960
ccgtgccact	gcactccagc	ctgggtgaca	gagtgtgact	ccgcctcaaa	aaagaaaaaa	1020
aaaaaagtct	cgacggtcga					1040

<210> 556

<211> 1331

<212> DNA

<213> Homo sapiens

<400> 556

tttttttttt	ttcatacaca	agccggtgat	actttattat	ataagagagt	tgtcaaaagg	60
acagtttcat	ttctgtttca	gaatccccac	attccagtga	tccatctgtt	gacacaatta	120
acataaacta	tttgtctgata	tttactgagt	gcttgcaatg	tatcagagtc	attaaataag	180
atgcaacttc	tactgtgaaa	actggaatct	tcattaggac	acagacttag	aaaaggccca	240
gtttcaagga	ttctgacttg	cacagactga	gcactcccat	ttccagaagt	tcgaataacct	300
cttttcttat	ctcggaatg	tccatcatte	tcctcaactt	ctgatctctc	cagttccagt	360
caaaaaccag	aaattttaag	gggtcctaaat	taaggccacc	ttgtttaaca	agttctttta	420
ttctccccgg	agttcctaca	cccagggtgca	ccacacgctt	ctccagcaac	tttacctgcg	480
cctggacctt	tatgtgcttt	gcaaataatt	ttataacttt	gccgtctcct	ctgaatgctg	540
tcatcgacct	aatgagctcc	agggctcgga	cggccgagct	gcagatgatc	agcatcagga	600
ccgatttctt	ctcactgtgg	ttcttccctaa	gttttaacca	cttaggacaa	atttctttta	660
ggtatgagga	aagactgtga	gtcaaatcat	tggccttgag	gaaacaggag	tctggcagggt	720
tcagttcttc	taattcaatc	accaagcgct	tgctgctata	atagtccttc	atcagcttct	780
gtaggtcttc	aggtaacctc	ggttttgggt	ctgattttgc	aagaacatca	gtaattttct	840
tctttcttct	tttctctggt	ttggtgggtat	tctcttttct	ttcctttgggt	tgtatcaaaa	900
aacattcttt	aggctgtttg	gttttctctg	aaggtagcag	aactggaact	gtctctctgt	960
gcataccttc	tgtgtctcct	tctccttcac	catctgatgc	ttctgggctg	ctgcctgtct	1020
cagtcggctg	gttctctccac	cactcgtctc	cgagatcgct	tgccatttca	gctcaggctc	1080
cgacgtgggc	agaacatcac	gggtaggcga	ccagctgcgg	agaatcacgt	tgtctcaaa	1140
ccaggcgcc	ggcgtagcta	cacgcggagc	tcccgtctga	cactgtcgcc	tccgccccgc	1200
ggcgatgacg	tcacacctct	gccccgcctc	tccggcagcc	gctcccagac	tcgtcgcagt	1260
ttccacacag	gcgcccagac	gcagaagcag	tttggaacag	caacataaat	ccccccaaag	1320
atttatactt	g					1331

<210> 557

<211> 971

<212> DNA

<213> Homo sapiens

<400> 557

tttttttttt	ttgatctaag	aaactttatt	gtcagaacc	ttccctccct	gggcaatgga	60
aagagctttg	gagaccagcc	catggggaca	gagtcagagg	cactgggtgt	aaaaaagagc	120
gagcgtgttg	cacatttggg	ccattgtcat	gtgcgggtat	ggcaggagga	gggggtaatc	180
tagaagcccc	acatctaggg	ccttctaggg	accagatat	gcccccttag	gcaagggtca	240
catgccaaag	caaagcagat	gaggtcagcc	tggcttgggt	tgagggctca	gtgcctotta	300
gccttgcccc	ggggttcttg	gaccttccgg	aaactgagcc	acatcaggct	cacgttgata	360
gcataggttg	tgatacaaac	aatgcagaaa	tcatagagca	cgaagaacag	gatccaggcc	420
aggtagacag	aaccagcgag	agacaccagg	gagctcagca	gcacaggac	agaggcccag	480
cgtgtccgca	ggcaacctaa	caatagctgt	agtgtgtaga	agatgcaacc	gaatatgctg	540
ttggattgat	tgaggatgct	gtcctgtccc	agcacatgct	ccaccagccc	gaaacccctg	600
ccccacctgg	aggagaagac	gcgcgaacag	ctgatggcgg	tgcccacgtc	gcagagcgcg	660
cggtaatccc	ggtcccgggc	gcgcgcggcc	ttcacgtgca	gcgcgtagag	cgagagcact	720
aagcccgtca	ggcaaagagc	gagccgcacc	cagccagggc	tccccaggt	gctgcccatt	780
atctccagggt	tccgcccag	gcgcccgcgg	agaaaaccag	ccacggagca	ggggccgggc	840
ggcgaatggc	cgcgcccctc	ctggccctct	gactcggcga	ttggccggcc	gtgctcgcac	900
tccacgaccc	aaatggctgt	tccaggggcg	tagtcaagcg	ggcgagttag	gaaaacagcg	960
aagaatgccg	g					971

<210> 558

<211> 1575

<212> DNA

<213> Homo sapiens

<400> 558

ggagtccccc	gcgccccccg	cgttccgccc	ggccatggct	gcggtggcgc	tgatgccacc	60
gccgctgctg	ctgctgctgc	tggtggcgtc	gcgccccgcc	gcctccgcgc	cgtccgcccc	120
cgatcccttc	gccccccagc	tgggggacac	gcagaactgc	cagctgcggg	gccgcgaccg	180
cgacctgggc	cgcagccct	cgcaggcggg	gctggagggc	gcctccgagt	ctccctatga	240
cagagcggtt	ctgatcagcg	cctgcgagcg	tggctgccgc	ctcttctcca	tctgcgatt	300
tgtggccaga	agctccaagc	ccaatgccac	ccaaactgag	tgtgaagcag	cctgcgtgga	360
agcctatgtg	aaggaggcag	agcagcaggc	ctgtagccac	ggctgctgga	gccagcccgc	420
ggagcctgag	cggagcaga	agagaaaggt	cctggaggct	ccaagtgggg	ccctctccct	480
cttggaacttg	ttttccaccc	tctgcaatga	ccttgtcaac	tcagcccagg	gatttgtctc	540
ctccacctgg	acatactact	tcagactga	caatgggaaa	gtggtggtgt	ttcagactca	600
gcccatagtg	gagagcctcg	gcttccaggg	gggcccgtctg	cagcgcgtgg	aggtgacctg	660
gcgaggctcc	caccctgaag	ccctggagggt	gcacgtggac	cctgtaggcc	ccctggacaa	720
ggtgaggaag	gccaagatcc	gagtcagac	cagcagcaag	gccaagggtg	agtctgaaga	780
gccacaggac	aatgacttcc	tcagttgcat	gtcccggcgc	tcgggtctgc	ctcgctggat	840
cctggcctgc	tgccctcttc	tctccgtgct	ggtgatgctg	tggctgagct	gtccaccct	900
ggtgaccgcg	cctggccagc	acctcaagtt	ccagcctctg	accctggagc	agcacaaggg	960
cttcatgatg	gagcccgatt	ggccccgtga	ccgcgcggcg	tcccacgcct	gtgaggacag	1020
cctaccaccc	tacaagctga	agctggacct	gaccaagctg	taggcctcca	ctggccccat	1080
cactgccaac	tgcaaggggc	ccctcggggc	tcacttgccc	tgagcccagg	gagtcgaagg	1140
gcaggggtgg	tccagccttg	agccccctca	cccccaaatc	cttccctctc	tcccagaccc	1200
accctctgcc	ccacggagtc	ctggggagcg	agtgcgccag	ctgggaagag	ggcgggatcg	1260
ggcaactgggt	cctccttgct	cccgtttct	tgggggcttg	ctactttttg	tcttctattg	1320
tgtggctttc	tgagtatttg	taacccagtc	ctgtgtcacc	ttcctttttc	cttctctgtc	1380
ccctctctgc	gggggggcgc	tgaggctgag	ggggagctgc	gtcttgctag	ggcttcccc	1440
ttctccccat	cccgtctcc	agagacccag	cttctgagag	acaggggtgtg	ggcatctcca	1500
tgccccata	aagcgtgcct	ggggcttgct	tggggctggg	gaggaataaa	ccatgtatat	1560
aaaagaaaa	aaaaa					1575

<210> 559
 <211> 820
 <212> DNA
 <213> Homo sapiens

<400> 559
 ctttcccagag cttggaactt cgttatccgc gatgcgtttc ctggcagcta cattcctgct 60
 cctggcgctc agcaccgctg cccaggccga accggtgcag ttcaaggact gcggttctgt 120
 ggatggagtt ataaaggaag tgaatgtgag cccatgcccc acccaaccct gccagctgag 180
 caaaggacag tcttacagcg tcaatgtcac cttcaccagc aatattcagt ctaaaagcag 240
 caaggccgtg gtgcattggca tcctgatggg cgtcccagtt ccctttccca ttcctgagcc 300
 tgatggttgt aagagtggaa ttaactgccc tatccaaaaa gacaagacct atagctacct 360
 gaataaacta ccagtgaata gcgaatatcc ctctataaaa ctggtggtgg agtggcaact 420
 tcaggatgac aaaaaccaa gtctcttctg ctgggaaatc ccagtacaga tcgtttctca 480
 tctctaagt cctcattgag ttcggtgcat ctggccaatg agtctgctga gactcttgac 540
 agcacctcca gctctgctgc ttcaacaaca gtgacttgct ctccaatggt atccagtgat 600
 tcgttgaaga ggaggtgctc tgtagcagaa actgagctcc ggggtggctgg ttctcagtgg 660
 ttgtctcatg tctcttttct tgtcttaggt ggtttcatta aatgcagcac ttgggttagca 720
 gatgtttaat ttttttttaa caacattaac ttgtggcctc tttctacacc tggaaattta 780
 ctcttgaata aataaaaact cgtttgtctt gtcttctgcc 820

<210> 560
 <211> 1601
 <212> DNA
 <213> Homo sapiens

<400> 560
 tttttttttt ttgggatgc attttgaata tttattgtcc ttgtttttta cataatttgc 60
 aaattttacat aattataatg gctgtgtttg acaactggct tgcaacaaaa ttcttgaaaa 120
 ttgaataatt ggccacctg ggctgggatg agccagctgg atcacaccgt tgccccctca 180
 gcctctagga ggctcagga ttatggcgtc catcttatga tattggccga aaggagacag 240
 tcttggagggt gctgcttact gttgaacttc cttttggaat gtatgggaga aggcaggga 300
 aggaatcttt aggcagactg ccatccaggg actgctatc tgttctactga gattcagctg 360
 tgaacatctg ttctttcttc ctcttctgtc tactgcatgc agggccggaa gctgagcgtt 420
 agtcaaagggt acaggaaggg aaaagagaag agggcaaggc ccatcccca agaaaggaa 480
 ggctctgatg cagagggagc aggagctgag gtggagacgg ccactgcctc tctcaccctc 540
 tgttccatcc ctctgctcaa gaaaaccagg cttagcagag tgggacagac gctttttatt 600
 ggtctggctg gcgtgcctag tggaaagctc aggcagagct tcctatcttg ccctggctcc 660
 catcttccct ctctgggag ttcatcacac atcccgagag ggaagagtgt cctgggcaga 720
 ggtggcaggc aaagccgggt aaaaactcca gggctgggaa gcaaatgggg ctccagggtga 780
 tgcagaaaaat gtgatgttgc caggccatcc aaataaagca tccatcgggg cagaggagaa 840
 gctgtttccc tgcaacaact cctctgcccc caccaggaat gggaggggca ggaggaagag 900
 ctctccagag aggtcccta ctgggccctt cgtgccatca gcatctccc gatgttgtcc 960
 tcagcttctc taacgcttcg ctccaggtag gactttttct gttctagtcc ttttaatttt 1020
 tcttctgcta ttttctgctt ctctaacagc tgactgtgaa ttgcttccct ggactgaaga 1080
 ataaacattc ttctacacc ttcatatg ttagtctcat ctaccaaagt catgatctct 1140
 gtatctgtaa gatgtgcatg ctttttcgtt ctgtttagct gttcaatctg tatgtctgcg 1200
 agcttcacct tctgttgagt gtcaataact ttggcttgaa gctctgtgaa ggctatgaaa 1260
 gtgagtcctt gaagcctcca aacgcaacga aatgtctctg gagctcagaa agactggaca 1320
 agcccgagac agggccgag acttacccga cccagacca cgggctccta ccagcaaga 1380
 gccgtctgcc cccacccc tttatggaga ccagtgagg ccttaggact ctgggaaacc 1440
 attccctagt ccactggacc ctcttctctt ctgcaaggct cgtgcctcac ttgatattct 1500

```
tgtctatagt cccctcagcc tccaaaaaga agacctccgc ctgccaaaga ccctctttta 1560
ccttcttcag ctctagatcc acgggggcgg ccactcgtgc c 1601
```

```
<210> 561
<211> 797
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(797)
<223> n = a,t,c or g
```

```
<400> 561
ctcactcact cctgcttggc acgaggggtcc gagatgcttc tagcaagatc cagggcgagt 60
acacgctgac cctcaggaaa ggcgggaaca ataagctgag cagggctcttc caccgagatg 120
ggcactatgg cttctcagag ccactcacct tctgctccgt tgtggacctc atcaatcact 180
accgccacga gtctctggcc cagtacaatg ccaagctgga cacacggctc ctctaccctg 240
tgtccaaata ccagcaggtc cgtgctggcc tgggagccag ggagggtagc acctggctgg 300
ccccaggcct cagtttccta ggtagaccgc accaggctat gcctctccc tcattccgcc 360
acgtatctcc aggaccagat tgtcaaggag gacagcgtgg aggcagtggg cgcccagctt 420
aaggctctatc accagcagta ccaggacaag agccgcgagt atgaccagct ttatgaagag 480
tacacacgga cctcccagga gctgcagatg aagcgtactg caattgagge cttcaatgag 540
actatcaaga tctttgaaga gcagggccag actcaagaga aatgcagcaa ggaatacctg 600
gagcgcttcc ggcgtgaggg caaccgacga aagagatgca aaggatcctg ctgaactccg 660
agcggtctca gtcccgcatg gcccgagatc catgagagcc ngcaccgaag ctgggagcag 720
cagctgctgg tgcccagggc ttcggacaac aagagagatt cgacaagccg cattgaacaa 780
gcctcaagcc ggacctc 797
```

```
<210> 562
<211> 1772
<212> DNA
<213> Homo sapiens
```

```
<400> 562
tttttttttt ttacatctga atgtatttta atataaaaaat aacagctttc ccccaattct 60
cgctctagga aaatgtgcta tgctcacctt cctctacccc ctgtcccatc aggcccagag 120
ccaaggccat agggctgctg aatacacatg tgagggggcc gaggggaaga caacagtacc 180
aggagggcag gcagggcacc ccaggctgg ccagtggagg ggtgggggta tcgatccgcg 240
cgggggctgg cttggttgct ggtgccctga gcccttctct gcccgctgg gtgttgctt 300
cactgatgga ggtaggcgctc cagccagatg tcaccagact tcttcaggga cctgacgatg 360
tccaccagcg cggtagggaa gggcttcact tcgtagctga ggcctgctt ggcacacagc 420
gacttgacca gcggggccac ccgctgttag ttgtgtctcg gcctcctggg gaagagggtg 480
tgctcgatct ggaagttagg gtgcccgtg aaccagttgg tgaaggtga gggctccacg 540
ttgcaggtag ctgccagctg agagctgacc cagtcctggg gcttctcgtg gccgatctcc 600
ttggggatgt ggttcactctg tgtgatccac acgaaccagt ggctttccag gacctgaca 660
gcaacaaaga agagcagcac ccaggggacg ccgtagaagg ggaggtagga taagaagaa 720
cgggcataga agctggcgcc ccagagcaaa tccgcccact gcatgcacac cagcatgtac 780
```

gccagat	ttt	ccactt	caaaa	gttcacc	aggtg	gtgagc	agcgc	gcgggc	ccgat	caggaaga	aag	840
tacaggt	gct	gggtt	gtat	gggtag	gtat	ctgcgt	tttct	tcttgcc	ata	ctcgac	ggat	900
gactc	cccc	gaag	aagac	gggcgc	cacc	gtcacgt	ctg	ggtctt	ttgtg	gaagat	gttg	960
ggctt	ggcgt	gggtc	tgga	gtggc	ggaag	ttccacc	agt	gggcgg	agaa	gccctt	tagc	1020
tgcccc	atca	cgaact	tctg	ggccac	gttg	ttccacc	agg	acttct	ttgaa	gatggag	ggca	1080
tggccc	agggt	catgct	gcag	acacc	aggac	tgagc	ctgag	agatgg	cccag	gatgaag	ggcg	1140
gccaggg	cac	tgggc	accca	gccagg	accc	aggaggt	aga	taaggag	cca	ggccag	cacc	1200
tccatg	gccca	ggatgt	ggcc	cagtag	gaaa	gcaaaga	aagg	tgggact	ggc	atcaa	acagc	1260
ttcatgt	cct	cggctg	cctg	gtgcagg	ggct	cggaagt	cct	cgaccag	ctg	cgattc	cagg	1320
ggtccat	cct	ggctg	gggtt	ttccg	gagcc	agctct	ccaa	tcaacag	ggg	ctgtag	gaac	1380
ttgcgc	acaaa	aattg	agatc	ttgatg	gaag	gcacgga	aagg	catccg	tggc	gtcctc	agcg	1440
ccgtgg	tggc	cgatg	aggcg	gctg	ccccct	gggtg	ccgct	gtgccc	agcg	gctgat	gtcg	1500
tagacg	eggc	gctcg	atgac	cagcc	acttg	tcgcg	gggct	ggtcg	tgcg	gcgat	ctgc	1560
tcccag	caga	aggtg	ggcag	cggtg	cccc	ggctg	cgcg	gtccct	cccc	cggtc	ccggc	1620
tccccg	acgc	cgccat	gct	gcacg	cacga	gtcctg	ggga	tcccagg	cg	tggccg	agggt	1680
ccgagc	aaga	ccccg	aggga	agcga	aagac	gctccc	gggc	gccgc	ctcg	ccgcg	ccccg	1740
ctgctc	cggc	cccgc	cctgc	cgccg	cgggc	gc						1772

<210> 563
 <211> 521
 <212> DNA
 <213> Homo sapiens

<400>	563											
tttttt	ttttt	ttgga	attac	aaagct	acttt	ttaata	actttt	gggggt	gagcc	ccacag	gaat	60
aaaaaa	acact	gggaag	gggt	aacccc	ctca	cccccg	ggag	tggccc	agggt	ggagag	aggc	120
tacctg	agggt	gaagga	agca	caaaag	ggac	ccgctg	caga	ctcagg	ggcaa	agggaa	tgcc	180
atcggt	gctg	ggacct	gtga	gcacta	cagg	aggaaa	cgcg	agcgtg	gggtg	gactgg	ctcc	240
aggcac	acag	gcgaag	ggca	agaggg	ttgg	acacga	aagcc	acaaag	ctac	ttgggt	ttcct	300
ccttct	ttctc	gtttgc	cttt	ttctg	cttct	gctgc	atgat	ctccg	agtcc	ctctg	cttgc	360
gggcgg	cagc	agaaa	gccc	tcctct	cggc	gctttc	ccct	aaccg	agtcc	ctctg	ctttt	420
tcatatt	ctt	ctggcg	ggcg	agctca	cgct	ggttac	cgcg	ggtc	atggcg	acggc	agcg	480
ctcca	acctg	cctccg	ttac	gtccc	ctcgt	tcctc	gtgc	c				521

<210> 564
 <211> 840
 <212> DNA
 <213> Homo sapiens

<400>	564											
atccaat	atacc	ggagt	gactt	ggaact	ccat	tctat	cacta	tgaag	aaaag	tggtg	ttctt	60
ttcctc	tttg	gcatc	atctt	gctgg	ttctg	attgg	agtg	aagga	acccc	agtag	tgaga	120
aagggt	cgct	gttcc	tgc	cagca	ccaac	caagg	gacta	tccac	ctaca	atcct	tga	180
gacctt	aaac	aattt	gcccc	aagcc	cttcc	tgcg	agaaaa	ttgaa	atcat	tgct	acactg	240
aagaat	ggag	ttcaa	acatg	tctaa	accca	gattc	agcag	atgtg	aaagg	actga	tataa	300
aagtgg	gaga	aacagg	tcag	ccaaa	agaaa	aagcaa	aaaga	atggg	aaaaa	acatc	aaaaa	360
aagaa	gttc	tgaaa	gttcg	aaaat	ctcaa	cgttc	ctcgt	aaaag	aaagac	tacata	agag	420
accact	ttcac	caata	agtat	tctgt	gttaa	aaatg	ttcta	tttta	attat	accg	ctatca	480

ttccaaagga	ggatggcata	taatacaaag	gcttattaat	ttgactagaa	aatttaaaac	540
attactctga	aattgtaact	aaagttagaa	agttgatttt	agaatccaa	acgttaagaa	600
ttgttaaagg	ctatgattgt	ctttgttctt	ctaccaccca	ccagttgaat	ttcatcatgc	660
ttaaggccat	gatttttagca	ataccatgt	ctacacagat	gttcacccaa	ccacatccca	720
ctcacaacag	gtgcttgga	gagcagccct	aggcttccac	gtactgcagc	ctccagagag	780
tatctgaggc	acatgtcagc	aagtccctaag	cctgttagca	tgctggtgag	ccaagcagtt	840

<210> 565
 <211> 4345
 <212> DNA
 <213> Homo sapiens

<400> 565	
tcttgaattc	ccgggtcgac gatttcgtgc cgcggctgct gcgggaagtg gccagttcag 60
gaggcggacc	ccccgagggc agcgtgcgg ggccgttttc cggccctcct gacgcgacac 120
tgccctctc	cgagagctga gaaggaaaag aggagcttgc ggaggtgcgg ctgcaggccg 180
ttgttggtcg	agctggcggg tcccgcgggc caggccgtgg aggtgttacc tcattttgaa 240
agtcttggga	aacaggaaaa aattcctaac aaaatgtcag cttttcgaaa tcattgtcca 300
catttggatt	cagttggtga aataacaaaa gaagatttga tacaaaaatc ccttggtact 360
tgtcaggatt	gtaaagtcca aggacaaaat ctttgggcat gtctggagaa tagatgttca 420
tatgttggct	gtggtgaatc acaagtagat cacagcacca tacattctca ggagacaaag 480
cattatctaa	ctgtgaacct taccactctt cgagtatggt gttatgcttg cagcaaagaa 540
gtatttttgg	ataggaaatt aggaactcag ccttcattgc ctcatgtaag acaacctcac 600
caaatacaag	aaaacagtgt ccaggatttt aaaataccca gtaatacaac attaaaaact 660
cctctggttg	ccgtatttga tgatctggat atagaagcgg atgaagaaga tgaacttagg 720
gccagaggtc	ttacagggtt gaaaaatatt ggaaataact gttacatgaa tgcacttttg 780
caggctcttt	ctaattgccc acccttgaca cagttttttc ttgattgtgg aggactagct 840
cgaacagata	agaaacctgc catttgtaaa agttatctca aactaatgac agagctgtgg 900
tataaaagca	ggccaggatc tgttgtgcct actactctgt ttcaaggaaat taaaactgta 960
aatccaacat	ttcgggggta ttctcagcag gatgctcaag aattccttcg atgtttaatg 1020
gatttgcctc	atgaagaatt gaaagagcaa gtcattggaag tagaagaaga tccgcaaacc 1080
ataaccactg	aggagacaat ggaagaagac aagagccagt cggatgtaga ttttcagtct 1140
tgtgaatcct	gtagcaacag tgatagagca gaaaaatgaa atggctctag atgcttttct 1200
gaagataata	atgaaacaac aatgttaatt caggatgatg aaaacaattc agaaatgtca 1260
aaggattggc	aaaaagagaa gatgtgcaat aagattaata aagtaaattc tgaaggcgaa 1320
tttgataaag	atagagactc tatacttgaa acagtcgact taaacaacca ggaaactgtc 1380
aaagtgcata	tacacagcag agcttcagaa tatatcactg atgtccattc gaatgacctg 1440
tctacaccac	agatccttcc atcaaatgaa ggtgttaatc cacgtttatc ggcaagccct 1500
cctaaatcag	gcaatttgtg gccaggattg gcaccaccac acaaaaaagc tcagtctgca 1560
tctccaaaga	gaaaaaaaca gcacaagaaa tacagaagtg ttatttcaga catatttgat 1620
ggaacaatca	ttagtccagt gcagtgtctg acttctgaca ggggtgtctgt aaccttcgag 1680
acctttcaag	atctgtcctt gccaatctct ggcaaggaaag accttgctaa gctgcattca 1740
tcaagtcatc	caacttctat agtcaaagca ggatcatgtg gcgaagcata tgctccacaa 1800
gggtggatag	cttttttcat ggaatatgtg aagaggtttg ttgtctcatg tgtccctagc 1860
tggttttggg	gtccagtagt aaccttgcaa gattgtcttg ctgccttctt tgccagagat 1920
gaactaaaag	gtgacaatat gtacagttgt gaaaaatgca aaaagctgag aaatggagtg 1980
aagttttgta	aagtacaaaa ctttcctgag attttgtgca tccaccttaa aagattcaga 2040
catgaactaa	tgttttccac caaaatcagt accatgtttt catttccgct agaaggcttg 2100
gatcttcagc	catttcttgc taaggatagt ccagctcaaa ttgtgacata tgatcttctg 2160
tcagtcattt	gccatcatgg aactgcaagt agtggacact atatagccta ctgccgaaac 2220
aatctaaata	atctctggta tgaatttgat gatcagagtg tcaactgaagt ttcagaatct 2280
actgtacaaa	atgcagaagc ttactgtctt ttctatagga agagcagcga agaggcacaa 2340
aaagagagga	gaaggatatc aaatttattg aacataatgg aaccaagcct ccttcagttt 2400
tatatttctc	gacagtggct taataaattt aagacctttg ccgaacctgg ccctatttca 2460
aataatgact	ttctttgtat tcatggaggt gttctcccaa gaaaagctgg ttatattgaa 2520
gacctggttt	tgatgctgoc tcagaacatt tgggataacc tataatagcag gtatgggtgga 2580

ggaccagctg	tcaaccatct	gtacatttgt	catacttgcc	aaattgaggc	ggagaaaatt	2640
gaaaaaagaa	gaaaaactga	attggaaatt	tttattcggc	ttaacagagc	gttccaaaaa	2700
gaggactctc	cagctacttt	ttattgcac	agtatgcagt	ggtttagaga	atgggaaagt	2760
tttgtgaagg	gtaaagatgg	agatcctcca	ggctctattg	acaatactaa	gattgcagtc	2820
actaaatgtg	gtaatgtgat	gcttaggcaa	ggagcagatt	ctggccagat	ttctgaagaa	2880
acatggaatt	ttctgcagtc	tatttatggg	ggagggcctg	aagttatcct	gcgacctccg	2940
gttgttcatg	ttgatccaga	tatacttcaa	gcagaagaaa	aaattgaagt	agaaactcgg	3000
tctttgtaat	ttttaggatg	tagagagttc	taatgaggaa	tcattttcat	gtgccctgac	3060
atgtacacat	gcgaaaacat	tcctaaaagc	gtgtttattt	gctttatttt	ttttcatcat	3120
ttatccattt	tatttcttct	tagtgggcac	tatggaagaa	tataattaaa	tgtgtaatat	3180
accacaggtt	ggatatatta	gttttaataa	cttaccataa	agtctttcag	tgtaattttt	3240
ttttgagaca	gagtccttgc	ttgtcaccca	ggctggagtg	ctgtggtgtt	acctcagctc	3300
actgcagcct	ccacctcctg	ggttcaagcg	attctcctgc	ctcagcctct	cgagtagctg	3360
ggattacagg	cacctgccac	catgcccggc	taatttttgt	attttagtag	agatgggggt	3420
tcaccatggt	ggccaggcta	gtctcaaaact	cctgacctca	ggtgatccac	ccacctcggc	3480
ctcccaaagt	gctgggatta	caggtgtgag	ccacagcgcc	tggcccagtg	taatattttt	3540
gaaagaggag	ggacaattgt	gaaatcagta	ggttatcttt	aatctttaca	ctacatgcag	3600
atccatagta	tcctttgtag	tgttgtaaat	acttttgctt	tgaaaacttt	ttcattgtcc	3660
taaatcaccc	tgactctgac	cagtctttca	gttctccaaa	agcccaattt	aattgtatag	3720
ttttgtcatg	gcttcatata	ataaagagcc	tattttaagt	tgaaagtagt	agtcagaaaa	3780
ttgttaattt	cctaaagctc	aggaaactag	gggtgcactt	tttttgact	gcagcatata	3840
cactaactag	cttattaaaa	tttacaaaat	gtctttttga	atgtatcaag	gatataattt	3900
gtttgagtgg	aatttgtcag	cagatatcag	taacttattg	ccgcttatat	tgtacaatgt	3960
taaacttcaa	ttcctgtaac	ctgggttagta	ttaatgtcag	tgactaaaaa	acttagagtt	4020
agttttaggg	cactttttat	tttgagagca	tgaagtgtgg	aatgtgtcac	tacgattgtt	4080
gataaagctg	aggccacttg	caacttgatt	ttttaaatga	aatagataaa	gtctttttga	4140
ataatatagt	atgcactgct	atttgcttga	ttatgtaatg	tcaaaagttt	aactatatct	4200
caagtacaaa	aacatactgg	attacattga	ggatgttgaa	tagcattcat	gatggctttg	4260
ttttggtttg	gggcagctgt	caccagctaa	agcaatgttg	ttaaaattag	ctcaataaaa	4320
atgtctttaa	aatgcaaaaa	aaaaa				4345

<210> 566

<211> 984

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(984)

<223> n = a,t,c or g

<400> 566

gtcgtgaggg	gggccttcgg	gctgngctcg	ccgtcggtcg	ccgggggggtt	ggcctgggtg	60
tcattgggtc	tgggaagcgg	cagcagaggg	agggaccact	cggggtctgg	tgtcggcaca	120
gccatggcgg	gcgcgttggt	gcggaaagcg	gcggactatg	tccgaagcaa	ggatttcggg	180
gactacctca	tgagtacgca	cttctggggc	ccagtagcca	actgggtctt	teccattgct	240
gccatcaatg	atatgaaaaa	gtctccagag	attatcagtg	ggcggatgac	atttgccctc	300
tgttgctatt	ctttgacatt	catgagattt	gcctacaagg	tacagcctcg	gaactggctt	360
ctgtttgcat	gccacgcaac	aaatgaagta	gccagctca	tccagggagg	gcggcttatc	420
aaacacgaga	tgactaaaac	ggcatctgca	taacaatgga	aaaggaagaa	caaggtcttg	480
aagggacagc	attgccagct	gctgctgagt	cacagatttc	attataaata	gcctccctaa	540
ggaaaataca	ctgaatgcta	tttttactaa	ccattctatt	tttatagaaa	tagctgagag	600
tttctaaacc	aactctctgc	tgccttacaa	gtattaaata	ttttacttct	ttccataaag	660
agtagctcaa	aatatgcaat	taatttaata	tttctgatg	atgggtttat	ctgcagtaat	720
atgtatatca	tctattagaa	tttacttaat	gaaaaactga	agagaacaaa	atttgaacc	780
actagcactt	aagtactcct	gattcttaac	attgtcttta	atgaccacaa	gacaaccaac	840

agctggccac	gtacttaaaa	ttttgtcccc	actgtttaaa	aatgttacct	gtgtatttcc	900
atgcagtgtg	tatattgaga	tgctgttaact	taatggcaat	aatgatttta	aatatttgtt	960
aatgagtat	gattaaaaaa	aaaa				984

<210> 567
 <211> 1775
 <212> DNA
 <213> Homo sapiens

<400> 567						
gtccgggtcc	gctgcctggc	gctgcgggcg	gcgggccatg	gtggtttga	ttgagccggg	60
cccgccggg	gcgccgagtc	ggagggggtg	gcagtgcgag	gcggcagagg	ctacggggct	120
cggtttggct	gactggggag	tcggcaggcg	gcaggaacca	tgcgaggcca	gcggagcctg	180
ctgctgggccc	cggcccgctt	ctgcctccgc	ctccttctgc	tgctgggtta	caggcgccgc	240
tgtccacctc	tactccgggg	tctagtacag	cgctggcgct	acggcaaggt	ctgcctgcgc	300
tccctgctct	acaactcctt	tgggggcagt	gacaccgctg	ttgatgctgc	ctttgagcct	360
gtctactggc	tggtagacaa	cgtgatccgc	tggtttggag	tgggtgtcgt	ggctcctggtg	420
atcgtgctga	caggctccat	tgtagctatc	gcctacctgt	gtgtcctgcc	tctcatcctc	480
cgaacctact	cagtgcacag	actctgctgg	catttcttct	atagccactg	gaatctgatc	540
ctgattgtct	tccactacta	ccaggccatc	accactccgc	ctgggtaccc	accccgaggc	600
aggaatgata	tcgccaccgt	ctccatctgt	aagaagtgc	tttaccctaa	gccagcccga	660
acacaccact	gcagcatctg	caacaggtgt	gtgctgaaga	tggatcacca	ctgcccctgg	720
ctaaacaatt	gtgtgggcca	ctataaccat	cggtacttct	tctctttctg	ctttttcatg	780
actctgggct	gtgtctactg	cagctatgga	agttgggacc	ttttccggga	ggcttatgct	840
gccattgaga	aaatgaaaca	gctcgacaag	aacaaactac	aggcggttgc	caaccagact	900
tatcaccaga	ccccaccacc	caccttctcc	tttcgagaaa	ggatgactca	caagagtctt	960
gtctacctct	ggttcctgtg	cagttctgtg	gcacttgccc	tgggtgccct	aactgtatgg	1020
catgctgttc	tcatcagtcg	aggtgagact	agcatcgaaa	ggcacatcaa	caagaaggag	1080
agacgtcggc	tacaggccaa	gggcagagta	tttaggaatc	cttacaacta	cggctgcttg	1140
gacaactgga	aggtattcct	gggtgtggat	acaggaaagg	actggcttac	tcgggtgctc	1200
ttaccttcta	gtcacttgcc	ccatgggaat	ggaatgagct	gggagccccc	tccctgggtg	1260
actgctcact	cagcctctgt	gatggcagtg	tgagctggac	tgtgtcagcc	acgactcgag	1320
cactcattct	gctccctatg	ttatttcaag	ggcctccaag	ggcagctttt	ctcagaatcc	1380
ttgatcaaaa	agagccagtg	ggcctgcctt	agggtagcat	gcaggacaat	tcaaggacca	1440
gcctttttac	cactgcagaa	gaaagacaca	atgtggagaa	atcttaggac	tgacatccct	1500
ttactcaggg	aaacagaagt	tccaaccca	gactaggggt	caggcagcta	gctacctacc	1560
ttgccagtg	ctgaccggga	cctcctccag	gatacagcac	tggagtgtgg	caccacctct	1620
tctacttgct	gtctgaaaaa	acacctgact	agtacagctg	agatcttggc	ttctcaacag	1680
ggcaaagata	ccaggcctgc	tgctgaggtc	actgccactt	ctcacatgct	gcttaagggg	1740
gcacaaataa	aggtattcga	tttttaaaaa	aaaaa			1775

<210> 568
 <211> 1569
 <212> DNA
 <213> Homo sapiens

<400> 568						
atcacgtgga	cgctactcgc	tattcccggc	ctgttggtct	cttcgcgct	ggagtataca	60

gataggcgac	acgccggcg	gcccgtgagg	cggaatggc	tgctgtactg	cagcgcgctcg	120
agcggtgtc	caatcgagtc	gtgcgtgtgt	tgggctgtaa	cccggtccc	atgacctcc	180
aaggcaccac	cacctacct	gtggggaccg	gcccaggag	aatcctcatt	gacctggag	240
aaccagcaat	tccagaatac	atcagctgtt	taaagcaggc	tctaactgaa	tttaacacag	300
caatccagga	aattgtagt	actcactggc	accgagatca	ttctggaggc	ataggagata	360
tttgtaaaag	catcaataat	gacactacct	attgcattaa	aaaactccca	cggaatcctc	420
agagagaaga	aattatagga	aatggagagc	aacaatatgt	ttatctgaaa	gatggagatg	480
tgattaagac	tgagggagcc	actctaagag	ttctatatac	ccctggccac	actgatgatc	540
acatggctct	actcttagaa	gaggaaaatg	ctatcttttc	tggagattgc	atcctagggg	600
aaggaacaac	ggtatttgaa	gacctctatg	attatatgaa	ctctttaaaa	gagttattga	660
aaatcaaagc	tgatattata	tatccaggac	atggcccagt	aattcataat	gctgaagcta	720
aaattcaaca	atacatttct	cacagaaata	ttcgagagca	gcaaatttct	acattatttc	780
gtgagaactt	tgagaaatca	tttacagtaa	tggagcttgt	aaaaattatt	tacaagaata	840
ctcctgagaa	tttcatgaa	atggctaacc	ataatctctt	acttcatttg	aaaaaactag	900
aaaaagaagg	aaaaatat	agcaacacag	atcctgacaa	gaaatggaaa	gctcatcttt	960
agtttcagat	taaagaaagc	tttgttttat	tttgctttga	gagaatggta	tgttttctta	1020
actatagggt	attttataga	gaatataaaa	gtataaaaa	taaaaaataa	ccctagatat	1080
actttaaaat	aatgttatat	ttatgctaaa	atatgtaaat	tacactatac	aaccatatga	1140
taggttat	ctctaaccct	gtcttctaac	gttttaccac	aaattcataa	tctaatagtt	1200
tatcagtttt	caatagatta	aataaaatga	ttactttaaa	aataataaaa	tttatcta	1260
ttaaagttga	tattat	ggccgttagt	tatctattac	tagtgatcag	ttatactgtt	1320
ttctatagct	actttatt	acagcacaga	tttctatgca	cctttactct	ttcctcaacc	1380
cttgtctcta	tctgtacata	attgctttgt	cttgatgttt	ctatcaacta	tatcatgact	1440
atctattggg	tccataactc	tgtatcatgt	gtattttctt	attctgggat	accacaaatg	1500
atcatgcaa	atgaat	ggtgattgaa	aaatattaaa	ttcccaattt	aaagtaaaaa	1560
aaaaaaaa						1569

<210> 569

<211> 1207

<212> DNA

<213> Homo sapiens

<400> 569

cccacgcgtc	cgctcaaaca	tggccgccac	ggcgccctctg	gaagggaacc	gctctggggc	60
ccgcctttga	tctcgttggg	ggggctgggg	gatgagagct	gcaccgcgcg	ggacaagtcg	120
ccggcggcgc	ccgacggagc	agaagagaga	gcatggagct	ggagaggatc	gtcagtgacg	180
ccctccttgc	ctttgtccag	acacacctcc	cggaggccga	cctcagtggc	ttggatgagg	240
tcatcttctc	ctatgtgctt	ggggtcctgg	aggacctggg	cccctcgggc	ccatcacagg	300
agaacttcga	tatggaggct	ttcactgaga	tgatggaggc	ctatgtgcct	ggcttcgccc	360
acatccccag	gggcacaata	ggggacatga	tgcagaagct	ctcagggcag	ctgagcgatg	420
ccaggaacaa	agagaacctg	caaccgcaga	gctctggtgt	ccaagggtcag	gtgcccatct	480
cccagagacc	cctgcagcgg	cccgaatgc	tcaaagaaga	gactaggtct	tgggctgctg	540
ctgctgcaga	caccaagat	gaggcaactg	gcgctgagga	ggagcttctg	ccaggggtgg	600
atgtactcct	ggagggtgtc	cctacctgtt	cgggtggagca	ggcccagtgg	gtgctggcca	660
aagctcgggg	ggacttggaa	gaagctgtgc	agatgctggt	agagggaag	gaagaggggc	720
ctgcagcctg	ggagggcccc	aaccaggacc	tgcccagacg	cctcagaggc	ccccaaaagg	780
atgagctgaa	gtccttcac	ctgcagaagt	acatgtgtgt	ggatagcgca	gaggatcaga	840
agattcacgc	gccatgggt	cccaaggagg	cccccaagaa	gctgatccga	tacatcgaca	900
accaggtagt	gagcaccaaa	ggggagcgat	tcaaagatgt	gcggaaccct	gaggccgagg	960
agatgaaggc	cacatacatc	aacctcaagc	cagccagaaa	gtaccgcttc	cattgaggca	1020
ctcgccggac	tctgcccag	ccttctaggc	tcagatccca	gagggatgca	ggagccctat	1080
accctacac	agggggcccc	taactcctgt	cccccttctc	tactcctttg	ctccatagtg	1140
ttaacctact	ctcggagctg	cctccatggg	cacagtaaa	gtggcccaag	gaaggtgaaa	1200
aaaaaaa						1207

<210> 570
 <211> 524
 <212> DNA
 <213> Homo sapiens

<400> 570
 atttcatcac aggtaaaggg attgtggcca tcttgaggtg tctccagttt aatgagacgc 60
 taactgagct tcggtttcac aatcagaggc acatgttggg tcaccatgct gaaatggaaa 120
 tagccaggct tttgaaggca aacaacactc tcctgaagat gggctaccat tttgagcttc 180
 cgggtcccag aatggtgggtc actaatctgc tcaccaggaa tcaggataaa caaaggcaga 240
 aacgacagga agagcaaaaa cagcagcaac tcaaggaaac gaagaagctg atagccatgt 300
 tagagaatgg gttggggctg cccctggga tgtgggagct gttgggagga cccaagccag 360
 attccagaat gcaggaattc ttccagccac cgccacctcg gcctcccaac ccccaaatg 420
 tcccccttag tcaacgcagt gaaatgatga aaaagccatc gcaggccccg aagtacagga 480
 cagaccctga ctccctccgg gtggtgaagc tgaagagaat ccag 524

<210> 571
 <211> 2219
 <212> DNA
 <213> Homo sapiens

<400> 571
 cggggcgtcg ggccgggaacg cagtgttgtt ggagagcggg ggccccgctt cgcggcattt 60
 cgccctctcc ggcccttccg gaggtccgg gtttgtgccg tgtgcgtgcg gggctcggcg 120
 ctggggcgct cggtaggtct ccgcgggga ggaggcggcg ggggccccgt gtttcttcc 180
 ccccgccccc ccaccgcgc cgtgtcttat gtcgctgcct tctcttctg ttttccagct 240
 gtcacgaccg gaggggggac tcgcagcctt accaggcact taagtattca tcgaagagtc 300
 accccagtag cggtagtcac agacatgaaa agatgcgaga cgcgggagat ccttcaccac 360
 caaataaaat gttgcggaga tctgatagtc ctgaaaacaa atacagtac agcacaggtc 420
 acagtaaggc caaaaatgtg catactcaca gagttagaga gagggatggt gggaccagt 480
 actctccaca agaaaattca cacaaccaca gtgctcttca tagttcaaat ttcacattct 540
 ttctaattcc aagcaattaa cccaaggca aaactttcag gattgcacct tatgattctg 600
 gcagatgact ggggtctggag catattagct cttctggga aaagtactac tacaattgtc 660
 gaacagaagt ttcacaatgg ggaaaaacc caaagagtgg cttggaaaga ggacagagac 720
 aaaaagaagc aaacaagatg gcagtcaaca gcttcccaaa agatagggat tacagaagag 780
 aggtgatgca agcaacagcc actagtgggt ttgccagtgg aaaatctaca tcaggagaca 840
 aaccgctatc acattcttgc acaactcctt ccacgtcttc tgcctctgga ctgaacccca 900
 catctgcacc tccaacatct gcttcagcgg gtccctgttt ctccgtgttc cacagctcgc 960
 caatacctcc cttacttcag gacccaaatc ttcttagaca attgctgtcc tgctttggaa 1020
 gccacgctgc agcttaataa ttctaagtgt gacataatct ataataaatg aagttcttac 1080
 agggatgtg acacaagcct cactgcagac tataattcat aagtgtctta ctgctggacc 1140
 atctgttttc aaaataacgt ctctgatttc tcaagctgct cagctctcta cacaagccca 1200
 ggcattctaat cagtctccga tgtctttaac atctgatgag tcatcccaaa ggatcatatg 1260
 tttctccaag gaataaggca cacctcaaac ttaacacagt ccctattcaa acctttggat 1320
 tcagtactcc tctgttttca tcacagccaa aggttagtac tccagtagtt aagcaaggac 1380
 cagtgtcaca gtcagccaca cagcagcctg taactgctga caagcagcaa ggtcatgaac 1440
 ctgtctctcc tcgaagtctt cagcgtcaa gtageccagag aagtcctaca cctggtccca 1500
 atcatacttc taatagtagt aatgcataaa atgcaacagt tgtaccacag aattcttctg 1560
 cccgattccac gtgttcatta acgctgcac tagcagcaca cttcagtga aatctcataa 1620

aacacgttca	aggatggcct	gcagatcatg	cagagaagca	ggcatcaaga	ttacgcgaag	1680
aagcgcataa	catgggaact	attcacatgt	ccgaaatttg	tactgaatta	aaaaatttaa	1740
gatcttttagt	ccgagtatgt	gaaattcaag	caactttgcg	agagcaaagg	atactatttt	1800
tgagacaaca	aattaaaggaa	cttgaaaagc	taaaaaatca	gaattccttc	atgggtgtgaa	1860
gatgtgaata	attgcacatg	gttttgagaa	caggaactgt	aaatctgttg	cccaatctta	1920
acatttttga	gctgcattta	agtagacttt	ggaccgttaa	gctgggcaaa	ggaaatgaca	1980
aggggacggg	gtctgtgaga	gtcaattcag	gggaaagata	caagattgat	ttgtaaaacc	2040
cttgaaatgt	agatttcttg	tagatgtatc	cttcacgttg	taaatatgtt	ttgtagagtgt	2100
aagccatggg	aagccatgtg	taacagagct	tagacatcca	aaactaatca	atgctgagggt	2160
ggtaaatac	ctagcctttt	acatgtaaac	ctgtctgcaa	aattagcttt	tttaaaaaa	2219

<210> 572
 <211> 1671
 <212> DNA
 <213> Homo sapiens

<400> 572	
cgtagcgccc	gagtgctcggg
gaaggcgggtg	ctgctggcgg
gagtgggcag	ccagtctgcc
ccatgatact	tctcgaagac
aggccagcta	gtcagcatcg
aaacctcttg	ccatctgatg
aagcaatagc	acagcctgcc
taggaactgg	tatgtggatg
tcagccatcg	gcacccgctg
gtgcaacatg	aagaacaatt
tagagaagct	gaaggtgagg
ggaagaagat	gccaaaaaaa
catcctaate	cccagcatte
ggtttggatc	tgtagaaaaa
cacctctcgg	cctctcctc
aagaaaacaa	agcgaagctg
ccgagtgtgt	tcgggagaag
tgtgaaccca	tcagaaagtg
caatgacatt	tatgagttct
ggaaaatgaa	atatatgggt
agaaatgata	agcaaaatcc
caagcttaga	tcaggtcctg
cacgttttgg	ctgtatcctt
ccttgcccag	gtctggcaca
aacttttaag	ggacagagct
accacctctg	ttttccttgc
agaatctttt	caaagccac
tatctgtttt	tttcaaagaa
gggcttacc	ttttcgggccc
tgctgtggt	ggggtgcag
ggggaggagac	acagaggcct
tgaactttga	ggaagccaaa
tgaacagaaa	ctgatagaaa
gtgacttctg	gattgggctc
agccttcta	tgcttgagct
agccgtcctg	cggcagcgag
gcacccgctg	ccctacatg
atattctgat	gagaaaccag
gacaacacct	gtacttccag
catttaaaga	aagtagagaa
cctccttggt	gtcaccacag
gagaaaccag	cagttccttc
gacacacact	gtacttccag
gctgccttga	atctggccta
gtcaccacag	ttgtatgttg
cctagcacia	agaagcaaca
cagcccgac	ctagaggtct
gacctgaaga	atatttcatt
tgacatgtct	tgtgactatg
tctggtgagc	gtggagagtgt
aatggggagg	agtaaggagt
gaaactgaca	acaatggaaa
atacagagaa	ggtctatgaa
acgacctcct	gttggaaccc
ctcgacctta	tgagaaggta
tcaataaatg	tcacttggtt
tgataaaga	tgggctgtgg
atcatacaga	cagaaaaatcc
ctgtgcatcg	gcaattctca
gaaaaaaaaa	a

<210> 573
 <211> 1612
 <212> DNA
 <213> Homo sapiens

<400> 573

cgacagaatg	gggcctctct	ggaagttgtc	ccgggtgttc	gccgctggag	cccgggtcga	60
gaggacgagg	tgccgctgcc	tggagaatcc	tccgctgccg	tcggctcccg	gagcccagcc	120
ctttcctaac	ccaacccaac	ctagcccagt	cccagccgcc	agcgctgtc	cctgtcacgg	180
accccagcgt	taccatgcat	cctgccgtct	tcctatcctt	acccgacctc	agatgtctcc	240
ttctgtctct	ggtaacttgg	gtttttactc	ctgtaacaac	tgaaataaca	agtcttgata	300
cagagaatat	agatgaaatt	ttaaacaatg	ctgatgttgc	tttagtaaat	ttttatgtcg	360
actgggtgtc	tttcagtcag	atgtttgcac	caatttttga	ggaagcttcc	gatgtcatta	420
aggaagaatt	tccaaatgaa	aatcaagtag	tgtttgccag	agttgattgt	gatcagcact	480
ctgacatagc	ccagagatac	aggataagca	aatacccaac	cctcaaattg	tttcgtaatg	540
ggatgatgat	gaagagagaa	tacaggggtc	agcgatcagt	gaaagcattg	gcagattaca	600
tcaggcaaca	aaaaagtgac	cccattcaag	aaattcggga	cttagcagaa	atcaccactc	660
ttgatcgcag	caaaagaaat	atcattggat	attttgagca	aaaggactcg	gacaactata	720
gagtttttga	acgagtagcg	aatattttgc	atgatgactg	tgcttttctt	tctgcatttg	780
gggatgtttc	aaaaccggaa	agatatagtg	gcgacaacat	aatctacaaa	ccaccagggc	840
attctgtctc	ggatatgggtg	tactttggag	ctatgacaaa	ttttgatgtg	acttacaatt	900
ggattcaaga	taaatgtgtt	cctcttgctc	gagaaataac	atltgaaaat	ggagaggaat	960
tgacagaaga	aggactgcct	tttctcatat	tctttcacat	gaaagaagat	acagaaaagt	1020
tagaaatatt	ccagaatgaa	gtagctcggc	aattaataag	tgaaaaaggt	acaataaact	1080
ttttacatgc	cgattgtgac	aaatttagac	atcctcttct	gcacatacac	aaaactccag	1140
cagattgtcc	tgtaatcgct	attgacagct	ttaggcatac	gtatgtgttt	ggagacttca	1200
aagatgtatt	aattcctgga	aaactcaagc	aattcgtatt	tgacttacat	tctggaaaac	1260
tgacacagag	attccatcat	ggacctgacc	caactgatac	agccccagga	gagcaagccc	1320
aagatgtagc	aagcagtgcc	cctgagagct	ccttccagaa	actagcacc	agtgaatata	1380
ggtatactct	attgagggat	cgagatgagc	tttaaaaact	tgaaaaacag	tttgtaagcc	1440
tttcaacagc	agcatcaacc	tacgtggtgg	aaatagtaaa	cctatatattt	cataattcta	1500
tgtgtatttt	tattttgaa	aaacagaaag	aaattttggg	tttttaattt	tttttctccc	1560
cgactcaaaa	tgccattggt	catttaatat	tagtagcctc	ttaaaaaaaa	aa	1612

<210> 574
 <211> 928
 <212> DNA
 <213> Homo sapiens

<400> 574

tttttttttt	ttcctgtttt	catttttattg	ggaacttcaa	agaaaagaaa	gagagacgga	60
ttggttccca	agacaagccg	tgacgtagac	tccaacaag	ctggggaatt	ctggacagcg	120
aaggggtgga	cagtgagact	cagcacagcc	caaagtcaaa	ggcattaggg	ttgttctgaa	180
aatagagatt	caagaagccc	tggaaaatgc	tcttatccat	gagaagagca	cagactgtgg	240
ggtcccactt	catggctgat	atccagagcc	gcagggctgg	cgtgtggctc	acacagtcca	300
gtatcccata	cacatccagc	cgctcaaaac	agggccagag	gaggtaatca	atcatggata	360
tacagggtcc	accaaagaag	gtgggtgttct	gatactcaag	aatctcttcc	aggttgctga	420
attcctgacg	cagggtctgc	ttcagattag	tgcattctct	cccacatctc	aacgctacca	480
ggcactcctt	ggtcaaatgt	gggaccttac	aaaatagctc	caataacatc	ttttggcgag	540
ctcgttcata	agggctcatat	ggaaacagct	tccttctctg	ataagcatca	tccaggtact	600
cacaagcaat	aacagattca	tagatcagtt	gacattggct	ggtctccagg	acaggaatgt	660
ggccaaaagg	gtgcttttga	tagtaccatt	caggcttggt	tctcaggtta	atgttgacca	720
cttcatgtct	gatgtctttg	gccttgagga	cgaggcgggt	cctgtgagaa	taggggcaga	780
acctcatgct	gtagatgcgg	atcagccctt	ccgggactgg	ccctgggggc	tggttctctg	840
cagagcagcg	atggaggggg	acaggggaaag	gagaggctag	cggacgcgtg	ggtcggcccg	900
ggaaaacggg	tccaaccgag	ggcgtcaa				928

<210> 575
 <211> 1116
 <212> DNA
 <213> Homo sapiens

<400> 575
 ttttttggga ttttgcaaca tttaatcaaa aaagaatctg gcatcttaaa agttagggtt 60
 acaaacttga cacattctca atattagcaa tttatctatt taaacattgt ctaagaaaat 120
 atgatctatg aagacattaa tacattaata agatacttaa gagttcatta taagctacaa 180
 cactttgcaa ataagtatcc agtttaattg taacaaacca caatttgtga gcaaatttaa 240
 gaatataaaa aacattaatt agttaaatac aattctctgg gaatatacat tataacctaca 300
 gctgttttta cagtgaagat ctctcttttt tttctctttt aattatcaaa atggtaaatac 360
 actgtatggt cctggatctc catgctataa aactgaaata tgtatttcca gcgtagcaga 420
 tgggtgaccag gaaggcaaag aacgatgagg ccgcccagct gttgaagttg tgactgtccc 480
 tctcagggga gacggaagat gcatctacaa cagcggcaga gaggtacaag acgaaggcac 540
 tgccgttaaa gcacaggccc actgttgctc agggcacctg ggggaatcctg gtgtaggtca 600
 ttgttatgta gataatgagg aagaagacgg tgaggaccca gtaaaatata gctacaaaca 660
 tgacccagcc aaatgcgggg acccggaagt actcagttcc agcaataagc gtccatacca 720
 gcagccccag aacgatctcg gccacgatga ggaagccggg caggggtgcgg aggaactccc 780
 ggtcgtaggc gaagctgctg ctgctggtat ggacgcttat tgctggaact gagtacttcc 840
 ggggtccccg atttggctgg gtcattgttt tagctgtatt ttactgggtc ctcaaccgtc 900
 tcttctcat tatctacata acaatgacct acaccaggat tccccagggt ccctggacaa 960
 cagtgggcct gtgctttaac ggcagtgctt tgcgtctgta cctctctggc gctgttgtag 1020
 atgcatcttc cgtctccct gagagggaca gtcacaactt caacagctgg gcggcctcat 1080
 cgttctttgc ctctctggc accatctgct acgctg 1116

<210> 576
 <211> 3246
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1) ... (3246)
 <223> n = a,t,c or g

<400> 576
 cccacgcgtc cgccggacgt aggaggtgga ggttgtggaa ttcgccgttc gaaagcaggg 60
 actaaaagcc ccacttcgtc ttacgttcgg aaaggaaggc gtctgttgag cctttctctc 120
 agtcgtgagg gagcgctcga cggcgtgcgg aagtcctgag ttgaggcttg cgggacacct 180
 tccggagaaa gcgcaggcta aagccgagg tgaagatgtc caactacgtg aacgacatgt 240
 ggccgggctc gccgcaggag aaggattcgc cctcgacctc gcggtcgggc ggggtccagcc 300
 ggctgtcgtc gcggtctagg agccgtcttt tttccagaag ctctcggtcc cattcccgcg 360
 tctcgagccg gttttcgtcc aggagtccga ggagcaagtc cagggtcccgt tcccgaaggc 420
 gccaccagcg gaagtacagg cgtactcgc ggtcactcgc gcggagccgg tcgcgatccc 480
 gcagccgccc ttaccgagag aggcgctacg ggttcaccag gagatactac cggctctcct 540
 cgcggtaccg gtcccggctc cgtacagggt cgcgctctcg gggaaggctc tactgcggaa 600
 gggcgctacg gatcgcgcgg ggacagcgct actacggctt tggtcgcaca gtgtaccgg 660
 aggagcacag cagatggagg gacagatcca ggacgaggtc gcggagcaga accccctttc 720

gcttaagtga	aaaagatcga	atggagctgt	tagaaatagc	aaaaaccaat	gcagcgaaag	780
ctctaggaac	aaccaacatt	gacttgccag	ctagtctcag	aactgttcct	tcagccaaag	840
aaacaagccg	tggaaatagg	gtatcaagta	atgggtgcaa	gcctgaagta	agtattctag	900
gtttgtcgga	acaaaacttt	cagaaagcca	actgtcaaat	ctgattagcc	acttatatct	960
tagactatac	tttttgggaa	gtctagagat	gtatataatg	tgctaaattc	aaagtagcaa	1020
atctgaagat	aggcaatgtc	aaacccatga	aaatgggaga	ttaatgagct	ttatttggcc	1080
gtgcatgggtg	cctcatgcct	gtaatgaggc	agatggcttg	agtccaggag	ttcaagacta	1140
gcctgggcaa	tgtggcaaaa	ccgcgtgttt	acaaaaata	caaaaattag	ccaggcatgg	1200
tgggtgcatgc	ctgtagtccc	agctgttttg	gaggctgagg	caggaggatc	tttgagccta	1260
ggatgctaag	gttgagtgga	gccaagatgg	caccattgca	ctctagcctg	ggcagcagag	1320
cgagaccctg	tctcaaaaaa	tacatttatt	tttttcattt	tcagttaaca	gtgtactctt	1380
ataacaccgt	tattagctgg	tactttggtg	atttctatta	ctagtttttc	taagctatct	1440
acagagtgtt	tgtagctttc	atttgcagca	ttatgttccc	acaaattctg	tactcagcat	1500
atacagtata	gtttatctgc	tctatttctg	tcttatagaa	atcatgaatg	tgggtctgcag	1560
acattgatga	agaaaatctg	ttggttaattg	atacatgggc	taaagcatca	gagggtttaat	1620
ttgaagttaa	tgttcacaca	ctgaaaactt	agtttttttg	ttggtagatc	catgtgcatg	1680
ctagaatttg	ggacaggcac	tatttgcata	agtaattaaa	gtcaattttt	aaactaagca	1740
aaggtagacg	ttgtaacggg	ggggcatctg	tgaaaaaagat	gtccctttca	taatatatgc	1800
aatatattcc	agatgttttg	agagattaca	gaagaggagg	cctgcttcac	ttgcagctgt	1860
cggaaaagggt	aacagaagat	ggaactcgaa	atcccaatga	aaaacctacc	cagcaaagaa	1920
gcatagtctt	tagctctaata	aattctgtag	caaagccaat	acaaaaatca	gctaaagctg	1980
ccacagaaga	ggcatcttca	agatcaccaa	aaatagatca	gaaaaaaaagt	ccatatggac	2040
tgtggataac	ctttgggtcca	tctgtgctat	ctctcatatc	tgcaagagaa	acctaaaatg	2100
ttaatatattg	agtgttaagt	atttacatct	ttttgtgttg	gttttttaaat	gcacaagtat	2160
ccctgaatgg	ctcaaaggga	tgggataatg	ctagaaacac	taacttgcaa	taaagtgcag	2220
ttttcatgca	aacttagcca	tcagttttct	tcttttagat	aggtatccac	agtcctatg	2280
gacttttttt	ctgatctatt	tttggtgatc	ttgaagatgc	ctcttctgtg	gcagctttag	2340
ctgatttttg	tattggcttt	gctacagaat	tattagagct	aaaagctatg	cttctttgct	2400
gggtagggtt	ttcattggga	tttcgagttc	catcttctgt	taccttttcc	gacagctaga	2460
cagggttaaga	aaaagtgtaa	ttttaaaaca	catacccttg	gtttctaaat	cctatatata	2520
aaaatagcct	aattgtaaac	aaaatttagc	tgtagacaca	aaaatcaact	tggatctaac	2580
agcctaagta	acagaactat	tgagttttcc	cettaacaaa	actgatttaa	tattaggctt	2640
aagacactct	tcccataatt	attttacttc	cctgctggca	aattttaaact	aattttttaa	2700
tcagttttct	caggttgaat	caagtccact	tttgaatgt	aaagccacat	cagaaaatac	2760
gttttaagaa	actaaggcat	ttgccagtta	ggcacctaata	cgtctgaaca	aagaccttgt	2820
ctactaatac	tgagcaaaacc	cacatctggg	cccaattaca	cagattcatt	tagatacagc	2880
attttttttt	ttttaagccc	ccgagacggg	agtcttgctc	tgtcaccag	gctggagtga	2940
aaagtacagt	gcaatttgct	aatgcacatc	ctgcacattt	ctggagaatt	ataataaact	3000
tatctgcaag	tgaagcaggc	ctcctcttct	gtaatctctc	aaaacatttc	aggctttgca	3060
ccattacttg	atacacctat	tccacgggct	gtttctttgg	ctgaagggaac	agttctgaga	3120
ctagctggca	agtcaatggt	ggtgttccct	agagtcttgc	tgcattgggt	tttgctatct	3180
ctaacagctc	cattcgatct	ttttcactta	agcgaaaggg	ggtntctncc	gcgacctcgt	3240
cctgga						3246

<210> 577
 <211> 2393
 <212> DNA
 <213> Homo sapiens

<400> 577						
tttcgtgcta	acctcgcagc	agagaggagt	tgagggcgat	gagagcgggt	actgcgaact	60
gccggggcgt	gctgtcgctg	ccgccgtgat	acggagagca	acagtcccc	agcaacaccc	120
ctccccgaca	caggcacaca	ccccccgaca	ggcacgcaca	cccacccac	agtgcgggc	180
ctggctgcgc	ctcctctatt	ggcccaggaa	gccacccag	ccccgccag	cagagccag	240
aaggaaagaa	agcctcatgc	ctgagccgag	gggagcacca	tggatctgac	aaaaatgggc	300
atgatccagc	tgcagaaccc	taaccacccc	acggggctac	tgtgcaaggc	caaccagatg	360

cggetggcgg	ggacttttgtg	cgatgtgggtc	atcatggtgg	acagccagga	gttccacgcc	420
caccggacgg	tgctggcctg	caccagcaag	atgtttgaga	tcctcttcca	ccgcaatagt	480
caacactata	ctttggactt	cctctcgcca	aagaccttcc	agcagattct	ggagtatgca	540
tatacagcca	cgctgcaagc	caaggcggag	gacctggatg	acctgctgta	tgcgccggag	600
atcctggaga	tcgagtacct	ggaggaacag	tgctgaaga	tgctggagac	catccaggcc	660
tcagacgaca	atgacacgga	ggccaccatg	gccgatggcg	gggcccagga	aaaaaaggac	720
cgcaaggctc	ggtacctcaa	gaacatcttc	atctcgaagc	attccagcga	ggagagtggg	780
tatgccagtg	tggtctggaca	gagcctccct	gggcccattg	tggaccagag	cccttcagtc	840
tccacttcat	ttggtctttc	agccatgagt	cccaccaagg	ctgcagtgga	cagtttgatg	900
accataggac	agtctctcct	gcagggaact	cttcagccac	ctgcagggcc	cgaggagcca	960
actctggctg	ggggtgggcg	gcaccctggg	gtggttgagg	tgaagacgga	gatgatgcag	1020
gtggatgagg	tgcccagcca	ggacagccct	ggggcagccg	agtccagcat	ctcaggaggg	1080
atgggggaca	aggttgagga	aagaggcaaa	gaggggcctg	ggaccccagc	tcgaagcagc	1140
gtcatcacca	gtgctaggga	gctacactat	gggcgagagg	agagtgcga	gcagggtcca	1200
ccccagctg	aggctggcca	ggccccact	ggccgacctg	agcaccagc	acccccgct	1260
gagaagcatc	tgggcatcta	ctccgtgttg	cccaaccaca	aggctgacgc	tgtattgagc	1320
atgccgtctt	ccgtgacctc	tggcctccac	gtgcagcctg	ccctggctgt	ctccatggac	1380
ttcagcacct	atgggggggt	gctgccccag	ggcttcatcc	agagggagct	gttcagcaag	1440
ctggggggagc	tggctgtggg	catgaagtca	gagagccgga	ccatcgga	gcagtgcagc	1500
gtgtgtgggg	tcgagcttcc	tgataacgag	gctgtggagc	agcacaggaa	gctgcacagt	1560
gggatgaaga	cgtaagggtg	cgagctctgc	gggaagcgg	tcctggatag	tttgcggtg	1620
agaatgcact	tactggctca	ttcagcgggt	gccaaagcct	ttgtctgtga	tcagtgcgg	1680
gcacagtttt	cgaaggagga	tgccctggag	acacacaggc	agaccatac	tggcactgac	1740
atggccgtct	tctgtctgct	gtgtgggaag	cgcttccagg	cgcagagcgc	actgcagcag	1800
cacatggagg	tccacgcggg	cgtgcgcagc	tacatctgca	gtgagtgcaa	ccgcaccttc	1860
cccagccaca	cggctctcaa	acgccacctg	cgctcacata	caggcgacca	ccctacag	1920
tgtgagttct	gtggcagctg	cttcgggat	gagagcacac	tcaagagcca	caaacgcata	1980
cacacgggtg	agaaacccta	cgagtgaat	ggctgtggca	agaagttag	cctcaagcat	2040
cagctggaga	cgcactatag	ggtgcacaca	ggtgagaagc	cctttgagt	taagctctgc	2100
caccagcgct	cccgggacta	ctcgcccatg	atcaagcacc	tgagaacgca	caacggcgcc	2160
tcgccctacc	agtgcaccat	ctgcacagag	tactgcccc	gcctctcctc	catgcagaag	2220
cacatgaagg	gccacaagcc	cgaggagatc	ccgcccagct	ggaggataga	gaagacgtac	2280
ctctacctgt	gctatgtgtg	aagggaaggc	cgcggcggtg	gagccgagcg	gggagccagg	2340
aaagaagagt	tggagtgaga	tgataggaag	gactatgaca	aataaaaaaa	aaa	2393

<210> 578
 <211> 1258
 <212> DNA
 <213> Homo sapiens

<400> 578						
aagaaccgag	ggagaagccg	gatgtttgca	aacaatcgag	gagacgactt	gcggaccaga	60
cggcgcgag	gtgttcgtac	cgggagcctc	tgctggaag	agcgcgttcg	tcgcgaccct	120
gccgctgctg	ttggtcctcg	cggcgctggc	gctgggcgtc	ctccggaagc	agcggagaag	180
ccgagaaaag	ctgaggaagc	aggcggagaa	gagacaaggt	gagcggggac	agggcggtct	240
gcacgcacct	gcccagtg	caaaaccgc	cgctcatctaa	aggctgtggg	tccggttacg	300
agggtttatt	ccagcgag	gtgtcagggc	ggccaccggg	gaacggggat	cggtgacccc	360
gggtgggaag	ggggaagatc	gttcatatgg	acaaaagcgg	aggtgcggaa	cggctgcatt	420
ttccacggag	gctagtgcac	agatgtcagg	gttgaccggc	tgctgtcgtt	acgccctcgg	480
agcttcacat	cacactgtac	agagggagcg	gtgaccaggg	tctctgctgc	cagcgccacc	540
tcgtccaggt	tttcatagcg	cacagggagt	cgggcggatg	cgcaacatct	ccgcacaggg	600
tcaggaagcg	gcggtcaggc	accgagaaaa	cagcccagtt	acgtgaggca	gtgtccgggg	660
cttaacgttt	ccgcccagct	aatagatttg	ggaggctccg	accctgattt	tcacactagc	720
aggagggagg	gcgctgggtc	accctcctat	gcagaagggc	agccaaggg	gcgcacttcc	780
ccatccctg	cctggagcct	cacttcagc	cgcgctggg	cccgagacc	accgcgggtg	840
ggagtgccgc	atcggagggtg	aggcctcagt	gttaccat	ctgttctgtc	tgctcatctc	900

cccaacctga	gagtcctttcc	ccttttcttc	atcttttttt	tttttttgcc	caaaaaaaaaac	960
cccccgaaaa	aggggggaaa	ttttgggggg	ggggcccaaa	gggttgcttg	taagggaccc	1020
ttggccttgg	gaagggggag	gggggcccc	tttggacgg	gggggggaaa	aaattaaatt	1080
taaaccctcc	ctggggggccc	ccccctttc	cctttgtaag	ggggtaaaaag	ggaggggttc	1140
ttccccccgg	caattttccca	aaaacctttg	gaaaaaacct	ggcaagctct	cccctggaaa	1200
ataaaacatt	ccagtaaaaa	ttcttaaaaa	acggttaatg	ggttccgggt	tatttttt	1258

<210> 579
 <211> 2003
 <212> DNA
 <213> Homo sapiens

<400> 579

cacggggccgc	agcggcagtg	acgtaggggt	ggcgacggga	tccgttgccg	ctgcagctct	60
gcagtcgggc	cgttccttcg	ccgcgccag	gggtagcgg	gtagctgcgc	agcgtcgcgc	120
gcgtaccgc	accaggttc	ggcccgtagg	cgtctggcag	cccggcgcca	tcttcacga	180
gcgcctatgc	cgcagcctgc	gggcggggag	cggccgggta	ctgcttgctc	ctcggcttgc	240
atttgtttct	gctgaccgcg	ggccctgccc	tgggctggaa	cgaccctgac	agaatgttgc	300
tgcggtatgt	aaaagctctt	accctccact	atgaccgcta	taccacctcc	cgcaggctgg	360
atcccatccc	acagttgaaa	tgtgttgagg	gcacagctgg	ttgtgattct	tataccccaa	420
aagtcataca	gtgtcagaac	aaaggctggg	atgggtatga	tgtacagtgg	gaatgtaaga	480
cggacttaga	tattgcatac	aaatttggaa	aaactgtgg	gagctgtgaa	ggctatgagt	540
cctctgaaga	ccagtatgta	ctaagagggt	cttgtggctt	ggagtataat	ttagattata	600
cagaacttgg	cctgcagaaa	ctgaaggagt	ctggaaagca	gcacggcttt	gcctctttct	660
ctgattatta	ttataagtgg	tcctcggcgg	attcctgtaa	catgagtgga	ttgattacca	720
tcgtggtact	ccttgggata	gcctttgtag	tctataagct	gttcctgagt	gacgggcagt	780
attctcctcc	accgtactct	gagtatcctc	cattttccca	ccgttaccag	agattcacca	840
actcagcagg	acctcctccc	ccaggcttta	agtctgagtt	cacaggacca	cagaatactg	900
gccatggtgc	aacttctggt	tttggcagtg	cttttacagg	acaacaagga	tatgaaaatt	960
caggaccagg	gttctggaca	ggcttgggaa	ctgggtggaat	actaggatat	ttgtttggca	1020
gcaatagagc	ggcaacaccc	ttctcagact	cgtggtaacta	cccgtcctat	cctccctcct	1080
acctggcacc	gtggaatagg	gcttactcac	cccttcattgg	aggctcgggc	agctattcgg	1140
tatgttcaaa	ctcagacacg	aaaaccagaa	ctgcatacagg	atatgggtgg	accaggagac	1200
gataaagtag	aaagttggag	tcaaacactg	gatgcagaaa	ttttggattt	ttcatcactt	1260
tctcttttaga	aaaaaagtac	tacctgttaa	caattgggaa	aaggggatat	tcaaaagttc	1320
tgtggtgtta	tgtccagtg	agctttttgt	attctattat	ttgaggctaa	aagttgatgt	1380
gtgacaaaat	acttatgtgt	tgtatgtcag	tgtaacatgc	agatgtatat	tgcagttttt	1440
gaaagtgatc	attactgtgg	aatgctaaaa	atacattaat	ttctaaaacc	tgtgatgccc	1500
taagaagcat	taagaatgaa	ggtgttgtac	taatagaaac	taagtacaga	aaatttcagt	1560
tttaggtggt	tgtagctgat	gagttattac	ctcatagaga	ctataatatt	ctatttggta	1620
ttatattatt	tgatgtttgc	tgttcttcaa	acatttaaat	caagctttgg	actaatatg	1680
ctaatttgtg	agttctgatc	acttttgagc	tctgaagctt	tgaatcatte	agtgggtggag	1740
atggccttct	ggtaactgaa	tattaccttc	tgtaggaaaa	ggtggaaaat	aagcatctag	1800
aaggttggtg	tgaatgactc	tgtgctggca	aaaatgcttg	aaacctctat	atttctttcg	1860
ttcataagag	gtaaaggcca	aatttttcaa	caaaagtctt	ttaataacaa	aagcatgcag	1920
ttctctgtga	aatctcaaat	attgttgtaa	tagtctgttt	caatcttaaa	aagaatcaat	1980
aaaaacaaac	aaggggaaaa	aaa				2003

<210> 580
 <211> 1206
 <212> DNA
 <213> Homo sapiens

```

<400> 580
tttttttttt ttagtatttta taatcatttta cttgtagcga actgttttaa gttaacactt 60
gtttaaattt ttttactacta tagcatttat gcaatggttt acagaattca tggagttatt 120
tttatcagta tgggaatttaa ttaaaacctt gaatccttgt tttgtctgct tctctgagca 180
caagcctggt cagctgggtcc ctgcggtgcc taccagccag cttctctgta gggctctcgg 240
ccgcgtccac ctctgctctc ccaccacaag gtcacaaact cccacgcagt cctgggtcac 300
ccgcagctg ctctggagac ttggctctgg gcgtctctgt gcccaagtgc tccaagttgg 360
aagtttctgt gggcctcgtg taggggatgc cgtgctgggt gagcaaacct ttcagccttt 420
tgatctcctt tgagagttct ttatgagcct tcctgcagtt ttccagggtc tcaaacccca 480
agctgtcagg acctccctcc agctgggtgg gttcattttc ttctgggggtc ttaagtagc 540
cagcctctc aaaaagtgtc ctgagcaact tctcatggcc ctgggggggtg atcagctcat 600
cggccagggtc ctgctctacc tgggtccact gccgctgcag ggcctctggc agggttgggt 660
aactagcaa ggcgtggggg tggcagacga ggggggtctc gaacgtcagc gcgtagacgc 720
aggtgctcgg ctcgacaca tgggacagcc ggttgctttt tccacacgcc agctccacct 780
tgctctgccg ggtccgggaa cggcaggcgt caccgtccct catccacatg ccgtgaagg 840
tgttgttggc gatctccac tctgtccaga tggcaggat cccactgtag gcgttccagc 900
ggaaggtctg ctctgctgtg gtcacgttgt ggaacgggca gaactcatac ttgtacgtgg 960
actccaccag gctgaagcac ttgcccgaga gtcggaagag atgcacgggt ccagacacgg 1020
gtgaaggatc cctcttggtc tggaggcgac tggcctgagg caagaacggg ttgttcaccc 1080
caaacgcgtt gggctcctcc accaccttca tcttcgctgc acctgccggc gcgggcccgc 1140
cggccgagag cccgaggagc aacaggagcc gcgccagccc cgcgcccatc gcgccgcagc 1200
ggccgc 1206

```

```

<210> 581
<211> 1132
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(1132)
<223> n = a,t,c or g

```

```

<400> 581
tttttttttt ttaataccat tctgtgattt aaacttttct attggtgact tttagttgta 60
taggcacgga aaggaaaatc aattgttttc tttaatgctg agaatttttg ttaatatattc 120
tggacatttc ataaaacatc ttttgttgac attctacaaa tgatagcatc caataatgtc 180
ccaatacttt cttcttgtga agagagttta tatatctttt tgacttctgt aatattcatt 240
atttcaggaa gatttttcag agaaacctga tgaccttcta cttgagatat taggtattct 300
tgatttattt gtttttctcc ctcttcaatg taacaatta gaattgaagt gtcatttgct 360
gagataccaa attttttcaa agcctctgaa atattgttat ttggggaaag gttgaaaata 420
atttcagtag atagagttct tgtcttcatt tttcccagtt tgtagagggt aactgctttg 480
ttgttgcca caagtatctg aaatggatca acaatcactg taggatttat cagtgatcca 540
tcgttggtgc cttccatggc ctttcttctc aagtctcccg cattttttac atctttaaat 600
aacagaaggg ttaccttgca ttccgggaaat aggtccagct gatgtgttaa ctgcatttca 660
cagataagca ggattctaca tccggccccc agtgctctc ggaagagctc ccgctccgaa 720
acaaagccca caacttccgg aagcgatggc caatccccgt cttcttcgag ccagtttccg 780
gataggccgg ctccgggtgg ccatctgttt ccgggtcctg gtaggagggt tgcttccgcc 840
catggtcccg cccattcttc cgcctcccca acctgggtcc cgtcaacgga cgcaaggag 900
aacaggggct gtatatcact tccggcgaag gaaatggaag aatctatggg ctgggaccgg 960
aagctggggc ctggttttga gtctcggctt tgtcttaacc tgtgttgggc gttgcaccgg 1020

```

gcgacctcag	tttcttcctg	tacaaggaaa	agtactgacc	aaaatgagtt	ctacatacat	1080
ttccgctgct	ggagatttct	ttntccacc	ggcnctcaat	agtggctca	tg	1132

<210> 582
 <211> 8029
 <212> DNA
 <213> Homo sapiens

<400> 582	
tttttttttt	ttacagggag aggaaattct gttaattcca cgtttattaa tcacacagct 60
ctctgcagac	tagacactaa aacacacaat tgtcaaaaac tagaaaaatg agttatgtcc 120
acgtttttaa	agcaaaactt tataaatttc ttaccacact cattcccaag ttttatccca 180
caaagtatag	catgaaacaa tgacaacata catattatc aagtaaaatg ctatttaaaa 240
tagctgcaca	caggtaatta aaacactagg atccagtttt tagaggaaaa agtcatgtgg 300
cacaatttca	agttcataat tgaagttaac agtaaaacag atttgctcac atttgcttct 360
gatctttatt	tctgctgtct ctctttagta gaataaagaa atggcacttc acataaaatc 420
atatttaaaa	gctactaaaa tggataaaca gatgcagatc agctctttta tgagaatccc 480
tgcatagctg	gaggaagttc aaggataatt gttttttcaa ggcaaataga ctcttggtac 540
gtggctaatt	tcattgtacat tatcatcgtc ggggaagttcc tgctgagaac tcacggtagc 600
tatgccagaa	aagtactttc ttcacaggag gtgttgaaat aatgccggat aaatgcaagt 660
aaggccaata	tctccctctt ggtctagatc aggagctggc aaactttttc ttttaaggaga 720
caagtagtaa	atcttttagg ctttgccaggc tatactgtcc ctgtcccaac tattcaactc 780
tgccaagaaa	gcagtccag acaataccat aaatgaatgg gtgtggctat gctctaataa 840
cattttgttt	atggacactg aaatctgaat ttcatagaat tttcagggtg catgaaatat 900
tgttcttctt	ttgattttct gcccaatcat ttgaaaaacat ataaaccatt cttagctcac 960
aggttgtata	aaaacagggtg gcaggccagg tttgattcgt gggccatagt ttgccaaccc 1020
ctgatctaata	ggtccttttc tagtccatgt tgtaaaatgt atatattttt aaaatcccgt 1080
tacatatggc	tactttattt aaaaaacaac aaaaacgttc agttaaaaaat aattctcttt 1140
cttcccacaa	ccaagggcca ttttactaaa caataagcta tttcctttta ttagaaaatt 1200
gatcaaggat	atacaatgag tctctggcct caatttatga acccatgagc caaatatgca 1260
agaagactca	aaatttgcca ccagccaaa gaactctactg gcttacaatg ttaaaaattt 1320
atttgggaagt	attcctgcac acatctcagc atcggtaatc cagagttata aaaaataatg 1380
ttggagcatt	tgtattcttt ttttgaggcg gagtctcgtc ctgtcatcca ggctggagtg 1440
cagtggcgtg	atctctgctc actgcaagct ccgcctcctg ggttcacgcc attctcctgc 1500
ctcagcctcc	agagtagctg ggactacagg cacctgccac cacatccgac taattttttt 1560
tgtattttta	gtagagacgg ggtttcaccg tgttagccag gatggctctc atctcctgat 1620
gtcgtgatct	gcctgccttg gcctcccaag gtgttgggat tacaggcgtg agccactgtg 1680
cccagcccag	catttgattt cttaatagaa aaaggatgga tacatctaaa tcacaagtaa 1740
ttaaaaatgtt	atataaaacc acctaaaaac tacacaaata aagagaagac attaactgtc 1800
aaaaatgctga	gtatgtgatt cttgacaggg ccggggcact gtcactagga gatgaatttc 1860
agctcttctc	tctccttggg accttgggaa tgtggctagt acactccagg ccagatgcta 1920
ggcagctccc	tgtgtgcccc gggctctgcc agacctttag ttactcaacc atagcttccc 1980
agtggctcaa	tgagggatgt taaatcctag gtgggggttca ggagtaattg catccagcac 2040
tacttttcatt	cacattttcc ttcacaaacc cagaataacc acaagatgta agtggagtct 2100
acacagacag	agatggggaa aggaaggtgc ttcgtctcca cctacttggc cgctaatttg 2160
gatttgcac	tgtttaagat tacggagtct tcttttcaaa gtgagaggca acgccggta 2220
tagcggcttt	tgtttttgt gcgttatttg aatgatgagc tgtaaaaact ctcatagat 2280
aaaagggtgcc	tgaaattcaa gggctcatgc ctcttctaca aagtgggttg gcaattacag 2340
aaattctttc	ccttttgggt tgactgtggg gaaagtactt ttgctctttt ggagggtgagg 2400
gagcagcacc	acaccaggac agaaagaaca ggctcagggt acagccactt actcaggctc 2460
aggctgggtg	gcaagtgggc actggcctcc tcccactctg gcaaagccac tgacagtagg 2520
caaggaagg	ctgggcgggt ctgctcgtaa caatggctct tgtatgtcct tagaattttc 2580
atttttttgt	gaagtgtctt tactttctct ctggctcaca gtatcgcaag gagctaagta 2640
aggcctgtat	ggaatctcca ctgtatccat gggatgggag gtgctgaaca cagcccaag 2700
gcaacaaggc	cactcaggga aggagccagg ccatgccact gcgtgccttc catcctacca 2760
agctgcttct	gctattcttt gctttacact tcagctcatt tactcaagga aatgaaatga 2820

agtggcaaac	aggacagaaa	tgaaaataga	attctttaag	tggtaaattt	gggacaataa	2880
aggcatcaat	taaaaatattg	ttcaggaata	gggagaggtg	ctccttcgtg	cctcacagaa	2940
gcacggacaa	ttctgtgcta	tttattgtct	ttgaaagagg	gttcactcaa	acctctgccg	3000
caacaccctcc	agatgcacat	tccgtgtctt	ctgtgcctga	gctggcagat	gcccggggag	3060
gggtgctgtg	cccctcacct	ggcctgccag	tcacagtcaa	gggtctcctt	caagggtgctc	3120
tggggcccatg	ttctgtagcg	acatggggga	tggttgtgcc	actgcccagg	cagtgatcaa	3180
gccttttgtga	cggcccatgg	ggctgggcct	gccttgtgct	gtgcctgctc	tgaggcagct	3240
ggggctgtgg	tggggatcca	gggcctcatt	ctgtaaacc	agtgtgtggt	ctctgggagt	3300
ctgcagccac	aggcacgtgg	cacatattgg	tccctagtta	cattaagggc	aggggttagga	3360
tttgcatctg	tttaagatta	caaggactgg	atgagttctg	aaaaattcat	aattctgaaa	3420
acctattagt	ttatttaaaa	taatggatgg	catgtacctt	tatatgtaga	taagtctcct	3480
tttaaatttt	tttaaagaac	caaagaatcc	tacaagcccc	cgtaacacac	atacttgagt	3540
tccagatact	catcaatgcc	atacttggac	ccctctcgcc	caaggccgga	ctgcttccact	3600
ccaccaaag	ggcactccac	agaggaaatt	aatccttcgt	tgacgccaac	catgccact	3660
tccagctgct	ctgccactct	ccagatctgg	gctgggtctt	gagagtaaaa	ataacctgct	3720
aaccacaat	cagctgcgtt	agcgattgct	atagcctcct	cctctgtatc	gaacttgata	3780
actggtgcca	gaggcccgaa	agtctcttca	tgagtgcaca	gcatgtcctg	ggtgacattg	3840
cacagcaggg	taggtcaaaa	gaaatttttt	ccaagttggt	gtcgttttcc	acctgtcaca	3900
acggtggcat	ctttagaaac	ggcatcattc	acctgtttct	ccaccttttc	taccgctttt	3960
tcattaatta	atgggcccctg	agtagttcct	tcctcaaate	cattacctac	gcgcagggtt	4020
ttcttcatgg	cctcgccgaa	tgcttttaca	aaggcatcat	ggatgcccct	ttgcaccaag	4080
aattggtttg	agcaaacaca	agtctgtcca	gtgttcctaa	atttagatgc	catggcccct	4140
gtacagcct	ggtccacggt	ggcactgtca	aatactataa	atggagcaag	gcccggccagc	4200
tccatagaga	cccttttcac	agagtttgct	gcgtggtgca	acaggatctt	tcctgtagtt	4260
gttgaaccag	taaaggaaat	tttgacacc	agaggatcag	tacaaattgc	ctccccact	4320
tcttggcat	cttttcgaga	acagggaata	acattgtata	cacctgaagg	aatcccagcc	4380
tggcttgcaa	gcaacaatgg	atccaaatca	agaagaaatc	cctgatttac	ctcagccagg	4440
gccagggcgg	agaaggcggt	gtcttcggca	ggcttcacca	cgacagtaca	gcccggctgcc	4500
aggcgccccc	ccaccttccg	ggtgatcatg	gcactgggga	aattccacgg	ggtgatgact	4560
gcagccacgc	ctatgggctg	cttgaggacc	agggcccggc	tgctctttgc	cggggtgtag	4620
ataatgtctc	cgtaaacacg	gcggtcttcc	tcagagaacc	actctaggaa	aaaggccgaa	4680
tagagaattt	ctccatgtgc	ctccttcagt	ggctttccac	tttcagctgt	gattattctg	4740
gcaaggctat	ccttattttg	tatcattaaa	ttgtaccact	tccgaagtaa	tgaacctctc	4800
tccttggcgg	agacctccct	ccagcggcag	aaagcctcgt	aggcagcgcg	cacggcgggcg	4860
cgggectctc	gcaccccgca	gtcggctacc	atgccagag	cggcgccgct	ggcaggagtc	4920
ttgcacgggg	aagggtggcg	cggccgggag	ccagcggccg	cccacgaagc	tgtcgggtgcg	4980
cagcagcgcc	gcagagaggc	ccgccaggcg	cccagcgtag	cagcggagct	gggcccggcc	5040
gggcgcaggc	ccggaggcag	ggaccaggcc	gcccggcgcg	gggcggaggc	ggcagcctgg	5100
aaacgtcgac	ccgaggcgcc	gggccccaca	gctccgcagc	caaatgcagg	tcgccatggc	5160
ccgggcaacg	acggcgacag	gaaacaggtt	gtggcttggc	ctgctgatca	tgttgggttc	5220
tctctgccat	agaggttcac	cgtgtggcct	ttcaacacac	atagaaatag	gacacagagc	5280
tctggagttt	cttcagcttc	acaatgggcg	tgttaactac	agagagctgt	tactagaaca	5340
ccaggatgcg	tatcaggctg	gaatcgtgtt	tcctgattgt	ttttacccta	gcactctgaa	5400
aggaggaaaa	ttccatgatg	tgtctgagag	cactcactgg	actccgtttc	ttaatgcaag	5460
cgttcattat	atccgagaga	actatccctt	tccctgggag	aaggacacag	agaaactggt	5520
agctttcttg	tttggaatta	cttctcacat	ggcggcagat	gtcagctggc	atagctctggg	5580
ccttgaacaa	ggattcctta	ggaccatggg	agctattgat	tttcacggct	cctattcaga	5640
ggctcattcg	gctggtgatt	ttggaggaga	tgtgttgagc	cagtttgaat	ttaattttaa	5700
ttaccttgca	cgacgctggt	atgtgccagt	caaagatcta	ctgggaattt	atgagaaact	5760
gtatggtcga	aaagtcatca	ccgaaaaatg	aatcgttgat	tgttcacata	tccagttctt	5820
agaaatgtat	ggtgagatgc	tagctgtttc	caagttatat	cccacttact	ctacaaagtc	5880
cccggttttg	gtggaacaat	tccaagagta	ttttcttgga	ggactggatg	atatggcatt	5940
ttgggtccact	aataatttacc	atctaacaat	cttcagtgtg	gagaatggga	ccagtgactg	6000
caacctgcct	gagaaccctc	tgttcattgc	atgtggcggc	cagcaaaacc	acaccagggg	6060
ctcaaaaatg	cagaaaaatg	attttcacag	aaatttgact	acatccctaa	ctgaaagtgt	6120
tgacaggaat	ataaactata	ctgaaagagg	agtggtcttt	agtgtaaaatt	cctggacccc	6180
ggattccatg	tcctttatct	acaaggcttt	ggaaaggaa	ataaggacaa	tgttcataag	6240
tggctctcag	ttgtcacaaa	agcacgtctc	cagcccctta	gcactctact	tcttgtcatt	6300
tccttatgcg	aggcttggct	gggcaatgac	ctcagctgac	ctcaaccagg	atgggcacgg	6360
tgacctcgctg	gtgggcgcac	caggctacag	ccgccccggc	cacatccaca	tccggcgcg	6420
gtacctcctc	tacggcaatg	acctgggcct	gccacctgtt	gacctggacc	tggacaagga	6480
ggcccacagg	atccttgaag	gcttcagacc	ctcaggtcgg	tttggctcgg	ccttggctgt	6540
gttggaactt	aacgtggacg	cgtgcctga	cctgcccgtg	ggagctccct	cgggtgggctc	6600
cgagcagctc	acctacaaa	gtgccgtgta	tgtctacttt	ggttccaaac	aaggagggaat	6660

```

gtctttcttcc cctaacatca ccatttcttg ccaggacatc tactgtaact tgggctggac 6720
tctcttggct gcagatgtga atggagacag tgaacccgat ctggtcacgc gctccccctt 6780
tgcaccaggt ggaggggaagc agaagggaat tgtggctgcg ttttattctg gccccagcct 6840
gagcgacaaa gaaaaactga acgtggaggc agccaactgg acggtgagag gcgaggaaga 6900
cttctcctgg tttggatatt cccttcacgg tgtcactgtg gacaacagaa ccttgctgtt 6960
ggttggggagc ccgacctgga agaattgccag caggctgggc catttggtac acatccgaga 7020
tgagaaaaag agccttggga ggggtgtatgg ctacttccca ccaaacggcc aaagctgggt 7080
taccatttct ggagacaagg caatggggaa actgggtact tccctttcca gtggccacgt 7140
actgatgaat gggactctga aacaagtget gctggttggg gcccctacgt acgatgacgt 7200
gtctaagggt gcattcctga ccgtgaccct acaccaaggc ggagccactc gcatgtacgc 7260
actcacatct gacgcacagc ctctgctgct cagcaccttc agcggagacc gccgcttctc 7320
ccgatttggg ggcgttctgc acttgagtga cctggatgat gatggcttag atgaaatcat 7380
catggcagcc cccctgagga tagcagatgt aacctctgga ctgattgggg gagaagacgg 7440
ccgagtatat gtatataatg gcaaagagac cacccttggg gacatgactg gcaaattgcaa 7500
atcatggata actccatgtc cagaagaaaa ggccaatat gtattgattt ctctgaagc 7560
cagctcaagg tttgggagct ccctcatcac cgtgaggccc aaggcaaaga accaagtcgt 7620
cattgctgct ggaaggagtt ctttggggagc ccgactctcc ggggcacttc acgtctatag 7680
ccttggctca gattgaagat ttactgcat ttcccactc tgcccactc tctcatgctg 7740
aatcacatcc atggtgagca ttttgatgga caaagtggca catccagtgg agcgggtggt 7800
gatcctgata gacatggggc tcttgggagt agagagacac actaacagcc acaccctctg 7860
gaaatctgat acagtaaata tatgactgca ccagaaatat gtgaaatagc agacattctg 7920
cttactcatg tctccttcca cagtttattt cctcgcttcc tttgcatcta aacctttctt 7980
ctttccgaac tttttgccta tagtcagacc tgctgtacca cctatttcc 8029

```

```

<210> 583
<211> 405
<212> DNA
<213> Homo sapiens

```

```

<400> 583
tcgttgcgta attcggcacg aggtctgaag atggcggcct cagcagcgcg aggtgctgcg 60
gcgctgcgta gaagtatcaa tcagccggtt gcttttgtga gaagaattcc ttggactgcg 120
gcgtcgagtc agctgaaaga aacttttgc cagttcggcc atgtcagaag gtgcatttta 180
ccttttgaca aggagactgg ctttcacaga ggtttgggtt gggttcagtt ttcttcagaa 240
gaaggacttc ggaatgcact acaacaggaa aatcatatta tagatggagt aaaggtccag 300
gttcacacta gaaggccaaa acttccgcaa acatctgatg atgaaaagaa agatttttga 360
gactgcagcc tattaataaa gttaacataa ctgagaaaaa aaaaa 405

```

```

<210> 584
<211> 1802
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(1802)
<223> n = a,t,c or g

```

<400> 584

tttttttttt	ttgetacatt	ttacttttatt	ttgttgaag	gaaaaccaat	tgactaagtt	60
gtccccaaaa	tgtagtggt	ctgatgataa	gaaggaaatg	aggtcagaag	gcaaactttt	120
cactttctct	caaacataaa	ttgcaagtat	cacagaaaat	tgtaacaaca	catgcaacac	180
gggatggctt	tcaacacaca	gagagcctaa	gcaagaagag	tgagtactga	aggctctacag	240
aggtcagact	gggagcacta	ccacaggaag	tttgaatcta	tccacgcagc	tctttcctcc	300
cacagtccag	gctcaacacc	tcttcctatt	ccaaggtggc	ttatccatat	gcagaaatcc	360
aggctgttcc	atatacatta	atacttgccc	agctgtgttt	cacgaggcat	ctccataagc	420
caagccccga	ctcaaattct	gtacaggaag	ttcccgttgc	tgtcaaagaa	ctctcggccc	480
ctctgcacta	ctttgtctgt	gaagtatatc	ggctcctctg	ccttcaactc	ctccagcttc	540
tgaccactgt	gcaacgcacc	actgccagtt	cctctggggc	tctcagaatc	actggagtac	600
ttctgcagct	ctcttggtatg	acctaggggt	gcagcaacag	gcacaaagct	ctcctccagg	660
tcttggaatt	ctttattttct	tcccttcctt	ctccttggtg	tatttgcctt	gtgagtgtct	720
gactctatca	ctttcaaagc	tgtgctgtga	tttgggtctt	tagatgaggc	ttcatgccct	780
ggcataagca	aagagcctga	tacagagtgg	cctgcaggga	gcagctttga	ggtattttcca	840
gagccccgga	ggtgctgcag	cgagtgggca	agcccagctt	tcttaaggac	tttttgatcc	900
tgcttcagct	tctgctccaa	tgtgggtaaa	aacttgcttt	ttaaaactct	tcggatcaca	960
tcagtgtctga	catcaaagcc	ttcagccaac	ctgggaactg	accaggactc	tggaaattcc	1020
tcagttaaat	accgtatctg	ctccatggct	tcccacgtca	gggtcctggg	cggggcacca	1080
gggcctccca	ttgcctccg	aattttctgg	aatcggattg	cttgtttctg	tcgttttcagg	1140
gtgctggggg	aagagaacca	atggcagaag	ccatgcgtgg	aagcagaatg	gatgtttgaa	1200
gagcctcagg	ctaaatcatg	gagcgcaccg	ccctcttctc	tttgatcgca	agggcaaccg	1260
ggccatgttg	ccggcttaga	gctgctccgt	acaccagaaa	agctaacacc	tagaacaata	1320
actgcctgta	agcatgccga	actctctaaa	ctgatgatga	aatacgtcac	taatgaagg	1380
accagtggtc	ccagggggagc	tgaacacctg	acgtgcgcc	cctaacaacg	ggtaagaaga	1440
aacaagggcc	gctgcgcaag	cagcggcagg	acaccggcg	ccaagggggc	gcggcctgga	1500
gcgcgggggc	acgagggcct	gcttcaagct	gagggcccg	ggagaagccg	gtacctctcc	1560
acctcctgca	gctcccggtc	ctccggctcc	cagtcggaat	cggggctccg	ctcccgcca	1620
atagggcctg	ggcccggccac	cccccggtc	gcgaaccac	agcgagtgc	ggcggcgcaa	1680
acgcgcccgc	ccagcaagag	actcagggta	accgccatgt	cgacgcaaac	cagccttcag	1740
cagtcggcta	ccctcgtgcc	aagcttggcg	tanaggtgtt	caatacagtc	tcatttgccg	1800
tc						1802

<210> 585
 <211> 1106
 <212> DNA
 <213> Homo sapiens

<400> 585

acggaagtgc	aggaacattt	cacaaatcta	caatctgtga	gtatcacatc	ctgtatagct	60
gtaaacactg	gaataaggaa	gggctgatga	ctttcagaag	atgaaggtaa	gtagaaaccg	120
ttgatgggac	tgagaaacca	gagttaaaac	ctctttggag	cttctgagga	ctcagctgga	180
accaacgggc	acagttggca	acaccatcat	gacatcacaa	cctgttccca	atgagaccat	240
catagtgtct	ccatcaaattg	tcatcaactt	ctcccaagca	gagaaaccgg	aaccaccaa	300
ccagggggcag	gatagcctga	agaaacatct	acacgcagaa	atcaaagtta	ttgggactat	360
ccagatcttg	tgtggcatga	tggtattgag	ctggggatc	attttggcat	ctgttctctt	420
ctctccaaat	tttacccaag	tgactttctac	actgttgaa	tctgcttacc	cattcatagg	480
accttttttt	tttatcatct	ctggctctct	atcaatcgcc	acagagaaaa	ggttaaccaa	540
gcttttggtg	catagcagcc	tggttggaag	cattctgagt	gctctgtctg	ccctgggtgg	600
tttcattatc	ctgtctgtca	aacaggccac	cttaaactct	gcctcactgc	agtgtgagtt	660
ggacaaaaat	aataatacaa	caagaagtta	tgtttcttac	ttttatcatg	attcacttta	720
taccacggac	tgctatacag	ccaaagccag	tctggctgga	actctctctc	tgatgctgat	780
ttgcaactctg	ctggaattct	gcctagctgt	gctcactgct	gtgctgcggg	ggaaacaggc	840
ttactctgac	ttccctggga	gtgtactttt	ctgcctcac	agttacattg	gtaattctgg	900
catgtcctca	aaaatgactc	atgactgtgg	atatgaagaa	ctattgactt	cttaagaaaa	960
aaggggagaaa	tattaatcag	aaagttgatt	cttatgataa	tatggaaaag	ttaaccatta	1020

tagaaaagca aagcttgagt ttcctaaatg taagctttta aagtaatgaa cattaaaaaa 1080
 aaccattat ttcactgtca tttaaa 1106

<210> 586
 <211> 1963
 <212> DNA
 <213> Homo sapiens

<400> 586
 ggggtgcctc acttctgcct gatttgggaa gcgctgcaag gacaaccggc tggggtcctt 60
 gcgcgccgcg gctcagggag gagcaccgac tgcgcgcac cctgagagat gggttggtgcc 120
 atgtggaagg tgattgtttc gctggtcctg ttgatgcctg gcccctgtga tgggctgttt 180
 cgctccctat acagaagtgt tccatgccca cctaagggag actcaggaca gccattattt 240
 ctacccctt acattgaagc tgggaagatc caaaaaggaa gagaattgag tttggtcggc 300
 cctttcccag gactgaacat gaagagtatt gccggcttcc tcaccgtgaa taagacttac 360
 aacagcaacc tcttcttctg gttcttccca gctcagatac agccagaaga tgccccagta 420
 gttctctggc tacaggggtg gccgggaggt tcatccatgt ttggactctt tgtggaacat 480
 gggccttatg ttgtcacaag taacatgacc ttgctgaca gagacttccc ctggaccaca 540
 acgctctcca tgctttacat tgacaatcca gtgggcacag gcttcagttt tactgatgat 600
 acccacggat atgcagtcaa tgaggacgat gtagcacggg atttatacag tgcactaatt 660
 cagtttttcc agatatttcc tgaatataaa aataatgact tttatgtcac tggggagtct 720
 tatgcaggga aatatgtgcc agccattgca cacctcatcc attccctcaa ccctgtgaga 780
 gaggtgaaga tcaacctgaa cggaattgct attggagatg gatattctga tcccgaatca 840
 attatagggg gctatgcaga attcctgtac caaattggct tgttggatga gaagcaaaaa 900
 aagtaattcc agaagcagt ccatgaatgc atagaacaca tcaggaagca gaactggttt 960
 gaggcctttg aaatactgga taaactacta gatggcgact taacaagtga tccttcttac 1020
 ttccagaatg ttacaggatg tagtaattac tataactttt tgcggtgcac ggaacctgag 1080
 gatcagcttt actatgtgaa atttttgtca ctcccagagg tgagacaagc catccacgtg 1140
 gggaatcaga cttttaatga tggaaactata gttgaaaagt acttgcgaga agatacagta 1200
 cagtcagtta agccatgggt aactgaaatc atgaataatt ataaggttct gatctacaat 1260
 ggccaacttg acatcatcgt ggcagctgcc ctgacagagc gctccttgat gggcatggac 1320
 tggaaaggat cccaggaata caagaaggca gaaaaaaaag tttggaagat ctttaaatct 1380
 gacagtgaag tggctgggta catccggcaa ggggtgact tccatcaggt aattattcga 1440
 ggtggaggac atattttacc ctatgaccag cctctgagag cttttgacat gattaatcga 1500
 ttcatttatg gaaaaggatg ggatccttat gttggataaa ctaccttccc aaaagagaac 1560
 atcagagggt ttcatgtctg aaaagaaaat cgtaaaaaca gaaaatgtca taggaataaa 1620
 aaaattatct tttcatatct gcaagatttt tttcatcaat aaaaattatc cttgaaacaa 1680
 gtgagctttt gtttttgggg ggagatgttt actacaaaat taacatgagt acatgagtaa 1740
 gaattacatt atttaactta aaggatgaaa ggtatggatg atgtgacact gagacaagat 1800
 gtataaatga aatttttaggg tcttgaaatag gaagttttta tttcttctaa gagtaagtga 1860
 aaagtgcagt tgtaacaaac aaagctgtaa catcttttcc tgccaataac agaagtttgg 1920
 catgccgcga aggtgttttg aaatattatt ggataagaat agt 1963

<210> 587
 <211> 1612
 <212> DNA
 <213> Homo sapiens

<400> 587

cccacgcgtc	cgccccgcgc	tcggggccac	acgcctcagc	cagccccggc	aagggcctat	60
caggggtggg	tcggggcatc	cgagcgggtt	tgacgggaag	agcggcggcg	acggaggagg	120
aggatggagg	cggtgggtgt	cgtctctctc	ctcctcgatt	gttgcgcgct	catcttcctc	180
tcgggtctact	tcataattac	attgtctgat	ttagaatgtg	attacattaa	tgctagatca	240
tggtgctcaa	aattaaacaa	gtgggttaatt	ccagaattga	ttggccatac	cattgtcact	300
gtattactgc	tcattgtcatt	gcactgggtc	atcttccttc	tcaacttacc	tggtgccact	360
tggaatatat	atcgatacat	tatggtgccg	agtggtaaca	tgggagtgtt	tgatccaaca	420
gaaatacaca	atcgagggca	gctgaagtca	cacatgaaag	aagccatgat	caagcttggt	480
ttccacttgc	tctgcttctt	catgtatctt	tatagtatga	tcttagcttt	gataaatgac	540
ttgaagctgga	gaagccgtgg	ttgaagtcag	cctacactac	agtgcacagt	tgaggagcca	600
gagacttctt	aatcatcct	tagaaccgtg	accatagcag	tatatatttt	cctcttgga	660
caaaaaacta	tttttgcgtg	atttttacca	tataaagtat	ttaaaaaaca	tgaattgagt	720
ttctgtagat	ttctagtctt	caactttagc	ctgaacgcca	acacttgaag	gtgtttttca	780
tctctgtgat	gttgaagggtg	gttatttgta	tgtaggaaca	ggactgccat	cccagctttg	840
catgccaaag	aaataaagaa	cacactttta	agggcaaact	gaagagatga	gcgagcaaag	900
gtgcccttca	ggtctactga	aaagttagag	tacaaaacaa	cactgttgat	ctggacaaaa	960
gaagaaaaat	tacccttttt	gcttggtgtg	tgacaacttc	atttaatatg	gtttaaagat	1020
ttatgagact	gtcagctaaa	agtcttttca	caagaatgtc	aacagagaat	ggcatctcaa	1080
aatatatata	tttctttgca	caatttggtg	aaccttataa	gccattttcc	ccaggtacaa	1140
tgtagttcct	gctgatagaa	aggaaatatt	ttgtcaagag	ctttcattta	aaagctacta	1200
cctccacaat	cacccccaaa	cccagaaaat	ccccactggc	tcttgccagt	ctgggttttcg	1260
tattgcagtt	attccaattg	tatttgatct	ccctgataac	gtattttcat	gggtttgggt	1320
agaagatgct	aatcagatta	gaagcaggaa	tagttatttg	ctgtctgtga	aattgaacct	1380
tttgggtgcg	cagtggtgct	cagatcaaca	ctcttatccc	tctgcactga	ccacgttggt	1440
aactgggaga	cccaaattgca	agccatttca	tggacatagc	aatatacaac	caaactctgt	1500
tcttggaggt	tatatgttaa	actcttgcat	gtgggagagc	agttcacctc	cttagctctg	1560
tttgccagct	cttacagggt	aaaataaacc	tgggcaattt	atcctcaaaa	aa	1612

<210> 588
 <211> 1124
 <212> DNA
 <213> Homo sapiens

<400> 588

tttttatatt	tttaaatatt	ttattttcct	gttctttgtg	aaaacatcaa	taaatatcga	60
aacctctctg	ctctaacaca	gagggaaaca	ctgcataatt	aacattaaac	aaggcagtat	120
gccttacaag	aaagacataa	aatgtccaag	ggatatttag	aacatttttag	ttcttaaagc	180
ttcaacatga	gaaatgttga	ccacacactg	tgaaatcatt	tcaataaata	acaactgaca	240
ttcatcttta	cagttacaaa	atagacacac	atacatttcc	ctgccgtcac	attgatctta	300
ctggccattt	tcttggatcc	ctcagcctct	atcacagtgg	ctgacatgtg	atatgtcatc	360
acgaagaaat	attaacaaat	gactagagaa	tatctgcaaa	ccttctatct	tcaaattaaa	420
tatgaatcag	gattgaacta	acttgggttt	gacctaaaat	aaacaataaa	tataatggga	480
gagtgtgcaa	gtagattcaa	tcataacctt	attttacaca	taaaatatta	acatagaatc	540
ttctaaaaca	aacaaataaa	taaataaata	aataaataaa	tagaagactt	ctcctaagtg	600
atgctcaaac	acattaggcg	caatccagggt	ggcctctgca	gctgtgtctc	tctttcctct	660
ttgttctctg	taagggcagg	gcctccttca	ggaacagcca	ccaataagct	tcctccttcc	720
ttctggctcag	ttggatttgc	catttttccag	catcttttccg	atgattttct	taaccatggg	780
cgatgcgggg	ttgagacaag	ctttctgccc	attcttgagt	gtggctatga	cttcgggtttg	840
ggcgagtggt	ggtccggggg	acttcacctt	cacactttgg	atgttcttga	ggtgaattcc	900
ctgcagggtc	tgcaagcact	ggcagcgcat	ttcagtggcc	aggggcgctc	ctgctgcgcg	960
ccggctggcg	gccaccagga	gcaggagcag	cagcgccact	cgcaggagcc	ggggatttgc	1020
gggggcggcg	gagagcgtgg	cgcgggccat	ggggctcagc	agggcggttcg	agcggctgtg	1080
cgaggaggag	agctggcaag	gagctccgtg	gcccgggctc	tgct		1124

<210> 589
 <211> 479
 <212> DNA
 <213> Homo sapiens

<400> 589
 ccggaattcc cggcgggacg cgtgggggct gacatgagag aatcgcttga gccaggagt 60
 tcgtggctgc agtgagctat gattgtgcca ctgcactcca gtctggggga cagaatgaaa 120
 ctgtctcaaa aagagtaaat gagacccoga gagttggagc agtgccccct agtacacaga 180
 aaagacaggg ctttgacacc ccctatctct ggtgttcttg gccctcaaca caggaaaaga 240
 aaaaagccat ccaggaggag gaggagagag accaggcctt gcaggccaag gcgagcctga 300
 ccatcccgtc ggtgcccagag acggaagatg accgcaagct ggcggctctg ctgaagtcc 360
 acaccctgga ctccctacgag gacaagcaga aacttaagcg gaccgagatc atcagcccgt 420
 tctgggttcc cttttgcccc ggaatccgcc tccaacagca aggtcagcgg cggcctgag 479

<210> 590
 <211> 3015
 <212> DNA
 <213> Homo sapiens

<400> 590
 tgcaagccgg tcgcgcgcag catggccacc accgccacct gcaccggtt caccgacgac 60
 taccagctct tcgaggagct tggcaagggt gctttctctg tggctccgag gtgtgtgaag 120
 aaaacctcca cgcaggagta cgcagcaaaa atcatcaata ccaagaagt gtctgcccgg 180
 gatcaccaga aactagaacg tgaggctcgg atatgtcgac ttctgaaaca tccaaacatc 240
 gtgcgcctcc atgacagtat ttctgaagaa gggtttcaact acctcgtgtt tgaccttgtt 300
 accggcgggg agctgtttga agacattgtg gccagagagt actacagtga agcagatgcc 360
 agccactgta tacatcagat tctggagagt gttaaccaca tccaccagca tgacatcgtc 420
 cacagggacc tgaagcctga gaacctgctg ctggcgagta aatgcaaggg tgccgcgctc 480
 aagctggctg attttggcct agccatcgaa gtacaggag agcagcaggc ttggtttggt 540
 tttgctggca cccaggtta ctgttcccc gaggtcttga ggaaagatcc ctatgaaaaa 600
 cctgtggata tctgggcctg cggggtcctc ctgtatatcc tccctgggtgg ctatcctccc 660
 ttctgggatg aggatcagca caagctgtat cagcagatca aggtggagc ctatgatttc 720
 ccatcaccag aatgggacac ggtaactcct gaagccaaga acttgatcaa ccagatgctg 780
 accataaacc cagcaaagcg catcacggct gaccaggctc tcaagcacc gtgggtctgt 840
 caacgatcca cggtggcac catgatgcat cgtcaggaga ctgtggagt tttgcgcaag 900
 ttcaatgccc ggagaaaact gaagggtgcc atcctcacga ccattgctgt ctcagggaac 960
 ttctcagctg ccaaaaagcct attgaacaag aagtcggatg gcggtgtcaa gccacagagc 1020
 aacaacaaaa acagtctcgt aagcccagcc caagagcccg cgcccttgca gacggccatg 1080
 tgaccacaaa ccaactgtgtt acacaacgct acagatggga tcaagggtc cacagagagc 1140
 tgcaaacacca ccacagaaga tgaggacctc aaagtgcgaa aacaggagat cattaagatt 1200
 acagaacagc tgattgaagc catcaacaat ggggactttg aggcctacac gaagatttgt 1260
 gatccaggcc tcaacttcctt tgagcctgag gcccttggtt acctcgtgga ggggatggat 1320
 ttccataagt ttacttttga gaatctcctg tccaagaaca gcaagcctat ccataaccac 1380
 atcctaaacc cacacgtcca cgtgattggg gaggacgcag cgtgcatcgc ctacatccgc 1440
 ctacccagc acatcgacgg gcagggtcgg cctcgacca gccagtcaga agagaccgg 1500
 gctgggcacc gtcgggatgg caagtggctc aatgtccact atcactgctc agggggccct 1560
 gccgaccgc tcagtgagc tcagccacag gggctttagg agattccagc cggaggtcca 1620
 accttcgcag ccagtggctc tggagggcct gagtgcagc ggcagtcctg tttgtttgag 1680

gtttaaaaca	attcaattac	aaaagcggca	gcagccaatg	cacgcccctg	catgcagccc	1740
tcccgccegc	ccttcgtgtc	tgtctctgct	gtaccgaggt	gtttttttaca	tttaagaaaa	1800
aaaaaaaaga	aaaaaagatt	gtttaaaaaa	aaaagggaatc	cataccatga	tgcgtttttaa	1860
aaccaccgac	agcccttggg	ttggcaagaa	ggcaggagta	tgtatgaggt	ccatcctggc	1920
atgagcagtg	gctcaccac	cggccttgaa	gaggtgagct	tggcctctct	ggtccccatg	1980
gacttagggg	gaccaggcaa	gaactctgac	agagcttttg	gggcccgtgat	gtgattgcag	2040
ctcctgaggt	ggcctgctta	ccccaggtct	aggaatgaac	ttcctttggaa	cttgcatagg	2100
cgcctagaat	ggggctgatg	agaacatcgt	gaccatcaga	cctacttggg	agagaacgca	2160
gagctcccag	cctgctgtgg	aggcagctga	gaagtgggtg	cctcaggact	gagagcccgg	2220
acgttctgtg	actgtcttgt	ttagtgtaga	agggaagaga	attggtgctg	cagaagtgtg	2280
ccgcctatga	agcagatgag	aaacctcgtg	ttagtctgac	atgcactcac	tcattccattt	2340
ctataggatg	cacaatgcat	gtgggcccta	atattgaggc	cttatccctg	cagctaggag	2400
ggggaggggt	tgttgctgct	ttgcttcgtg	ttttcttcta	acctggcaag	gagagagcca	2460
ggccctgggtc	agggctcccg	tgccgccttt	ggcggttctg	tttctgtgct	gatctggacc	2520
atctttgtct	tgccctttca	cggtagtggt	ccccatgctg	accctcatct	gggcctgggc	2580
cctctgccaa	gtgcccctgt	gggatgggag	gagtgaggca	gtgggagaag	aggtgggtggt	2640
cgtttctatg	cattcaggct	gcctttgggg	ctgcctccct	tcttattctt	ccttgctgca	2700
cgtccatctc	ttttcctgtc	tttgagattg	acctgactgc	tctggcaaga	agaagagggtg	2760
tccttacaga	ggcctcttta	ctgaccaact	gaagtataga	cttactgctg	gacaatctgc	2820
atgggcacatc	cccctcccg	catgtaacct	aaaagaggtg	tccagagcca	aggcttctac	2880
cttcattgtc	cctctctgtg	ctcaaggagt	tccattccag	gaggaagaga	tctataccct	2940
aaggcagata	ggcaaagaag	ataatggagg	agcaattggt	catggccttg	gtttccctca	3000
aaacaacgct	gcaga					3015

<210> 591
 <211> 1414
 <212> DNA
 <213> Homo sapiens

<400> 591	
cgccgctgccc	gggtgaaatc gtaggacagt gaagatgctg ctggaattgt ccgaggagca 60
taaggaacac	ctggcccttcc tgcctcaagt ggacagcgcg gtggctcgccg agtttgggcg 120
gattgctgtg	gaattcctga gacgcggcgc aaacccaaaa atctacgaag gcgcccgcag 180
aaaactcaat	gtgagtagtg aactgtcca gcatgggtgtg gaaggattaa cgtatctcct 240
cactgagagc	tcaaagctca tgatttctga actggatttc caagactctg tttttgttct 300
gggattctct	gaagaattaa acaaatgtgt gcttcagctt tatctggaca acagaaaaga 360
gatcagaacg	attctgagtg aattgggcac caagccttcc cagttatcat aaccttgaat 420
ggcgactaga	tgtacagctt gcaagtagaa gtctcaggca acagattaa ccagcagtg 480
ctataaagct	acaccttaat caaaatggag atcacaacac caaagttctg cagacagacc 540
cagccaccct	gctccatttg gttcaacaac tggacaagc attggaagag atgaagacaa 600
atcactgtag	gagagtgtgt cgcaacatca agtagtacca gttttaagggt ttttaattcat 660
ttgaatcact	tatgaattga tgatatacag caattacttt tcaaaaattaa ttttttatta 720
attcatgatg	ataaatacat agtattcctc agtatctatt ccaagatact gaggtcataa 780
tcagaagcta	agctgggtgc agtggctcat gccagttatc ccagcacttt gggaggccga 840
ggtggggcaaa	tcatgaggtc aggagattga gaccttcctg gctaacatgg tgaaacccca 900
tctctactaa	aaataaaaa aattagccag gtgtgggtggc acgcacttat cagagtccea 960
gctactcagg	aggctgaggc aggagaatcg cttgaacctg ggaggtggag gttgcagtga 1020
gctgagattg	tgccactgca ctccagcctg ggtgacagag tgagactcca tctcaaaaat 1080
aataataata	ataataaagt aaaaaataaa ataaaaaagt aatcagaagc taaagtaaag 1140
ttcctttcct	ggtgctaact gtggtcttct tgacacatta agatgtattt tgtattttta 1200
gagtctcatg	ctctaccgtt gggaaactagc cagatggcca ttattttgta ttttaaatac 1260
ataaatagga	ttgaatcaac tagaaatgaa tctatatgtt ctgtatatat gaatgactat 1320
cttggttttg	ctacttcttt tgactgctta attttattat tttcatcttt attgatcaaa 1380
tttcccaata	aaattcacaa tgtaatacta aaaa 1414

<210> 592
 <211> 314
 <212> DNA
 <213> Homo sapiens

<400> 592
 ggcaagagca tctacctagc acatcgtgtg gccgcgggct tgggaattgg cccagttcat 60
 ccaccacaca tccaagaagg cagacgtggg tctggcgtgt gccgactcta tctgtcatcc 120
 cgaggacctg atctgctgtc cgctgacggg gaggagtgtc ctatgtgatg ttcactact 180
 ctctctctc ctagctcgtc tcggtagagg ttatgctgtc tctctgacta atctctagga 240
 gttctgctgc cagctcgtc tctgctgtg ctgctctctt gttggctctt gcgtactctt 300
 cgacggcatc tctg 314

<210> 593
 <211> 2530
 <212> DNA
 <213> Homo sapiens

<400> 593
 tttttttttt ttaacaataa taaatcttta ttgagatttt ttaacaaaat aatttttgaa 60
 aacaaaagct cccacatgta aacaagaacg taaataagtt agatggcatt attatgtaca 120
 ttcaagaatc aaaacatggt ctggtaaaca ttccataatc cggtaaaatg ttttcaccca 180
 tcaactgtta gagaaactgt gtattttata ctatcaataa caaaacctaa tctttgaaca 240
 ttataaaatg gtttacggaa tataaactat acagtttacg tttttcattc ctctagcag 300
 atccgtgggc acatgtatac tgagtcttaa gatgtatttt gtcagtatta gcccaaatg 360
 tccaccatcc caaattaacc aggttacaca tatctctctc agtttttatg gtaggatgtg 420
 ttagaaccca tatattacaa catcattttt caaaactaac ctaatcctaa attctattct 480
 aactagtctg gcaatccttc attttatctc cctgtctaca cattcattag ataccaaggc 540
 aatttcacct taaaaaatac tgtaataaca catttagata gtaatttctg gtaaaactgt 600
 agttttattt tcaaaaaatg tgaattttta ttttagaaat gtaggtcaag cattgtcata 660
 gttgtagtac ttaattgaga ataattggct caatttgga gattcaatat acacattaaa 720
 caaaattaaa cagtttaaat tataattcat ataattataa ttctcatttt tagatggcca 780
 aaatatattg ttttcttact ataaagtgtt atttattcat cgtctatttt tactaattat 840
 attcaattca cagtagtgac atcaaagggg caagtcacat taggtctgag accaggaaaa 900
 cctggtctgt tttacacagag gcgtgtctaa aataagagta catatttcaa ttaggccac 960
 agagatagaa aagagccagg ataactcttg tattgaggcc ttgatttcag ttttaaatgt 1020
 aattcttttc tgccagctga aataatttaa agatgtgcac aataggctctg tgctatttaa 1080
 ggcaggtgtc aagcacattt tgaattttac caactagaat gttctcctaa tggaaaaaga 1140
 aaaaagaaaa gttatgacag tttttgttta agacagatgt ttaaatagca ctcttctttt 1200
 tgaccattta aaaataattt ggcagctgta accacctatg gtcataacac ataactactt 1260
 acaaaagaca agcaacagat acagaattaa cgatatactt ttaatatatt tacaaccttc 1320
 ttttaagttg tgcctaattg catttaacaa gatttttata ttcagtgaag aagatttaga 1380
 acataaactg acatgaagta aggaatataa tttctctgtg ccatgcaaaa gagaagtcaa 1440
 ctttttacac atcatcactc ctaaacagtt ctaattaaaa tccaaactgt tcccattttt 1500
 gcatcattgt cattcttttg caaaagattc taaaaaccca ggggttagga aacaactgtt 1560
 cactcatggt tttctctttt tttttttttg caaaatacat gtgttttgta aaagaaatct 1620
 gcaactgtgt tgggtttata tacataatta taagtaagca aaatagtagt acttcttttg 1680
 actaatctac tcctaaagcc ttgagttgcc gttcaatctc ttcactctgag attgtagcct 1740
 ttgaagtaga ggcagatggg aagcttcgag cagctgatgg agctttggcc atctttccag 1800

aaatttcaat	tccaatttca	tcaagaactt	gattcacaat	atcctggctt	tcttcttcgt	1860
catcagaacc	gtcaaagatg	tcatcaagtg	tatcattgat	catttcttca	gtcattttcca	1920
ttttcatgtt	ttccttctgg	aaattctgca	tggtttgtaa	tgtcttttgt	ggatccatct	1980
tcttgttaac	tgcttgcaat	gtttttgctg	tggtagacat	tgctccagcc	atcttcattt	2040
gggaattcat	cacttttggt	tgtgtagaca	tagaagtaac	ttttgaactt	acagcaaaag	2100
ttctcgtctt	ctgtttccgt	agatgcacaa	gttgtttggt	taaaactttg	caagcttcct	2160
tattaccaat	cttggccatt	ttcttaattt	ctaattccag	ctgtttttct	tgtttctcta	2220
aagtgtctcg	atctctgatt	atagccctct	gtgtacctcg	taactctcga	ttctgttcct	2280
ttattacatc	atccacgggt	ttcttcttga	agagggacgc	catggttaaa	gactgcgccc	2340
gggcggcccg	gctcggcccg	gtccggccca	acgctggcaa	aggacaggag	gaaaaggaca	2400
ggaccttggt	gggttcgggg	tggcggagcg	gagagacagc	aggaggaggt	cggggctcgcc	2460
aggcaggacc	cgcggaaggc	ttgtatccgc	agctaccgca	gccgcgtcac	cggagactca	2520
ggtgaccggg						2530

<210> 594
 <211> 903
 <212> DNA
 <213> Homo sapiens

<400> 594						
ttggtaatcc	aatttggaga	gtggccactg	aatcaatta	aaaatgttta	ttctgaaaga	60
tgctactata	aagtttatag	actcaaatgc	ttataatgct	taatcaaaac	taaatttaca	120
aaaaaaccta	gaaacagggt	gaattgaaac	ctgtagatca	ttttataata	ttcatgagca	180
acaacttttt	taaagacaaa	ggctactggt	ttaatataaa	ttaagagctt	taacatgatc	240
tccctttagt	gctttttaatt	gtcacatggc	tgtaaaccaa	agacccctcc	aaattttaaa	300
tgatcactga	tactacttga	gcagaaattc	tcagggtgca	gtacttttaa	tgttgtgtac	360
atcaaattac	agtacaaaaga	tgactataaa	caagatgcag	ccctcgggtt	ccatgaacag	420
cacactatta	cagtaaacca	agtttatatt	ccaccatcaa	gtgtggctct	cccatgactt	480
cgttttgtga	tggatcatta	agaatatcct	caaatccaat	agtctcatca	ttacccctca	540
aaacatccag	tgaagatttt	gagcttgaaa	gaaatggaag	acgctgaacc	tgctgcactg	600
ccttgaattc	catctgtaat	tttagcggag	caaataagacc	ctgaatgttt	ctcagtgtgg	660
aaaaattcat	tttatcttgg	ttgagctgga	aatttttttc	tgataattca	aggggatgac	720
taggcaaaag	ttcatttttc	acacaagaaa	aacctttccg	aagaagatca	tgactttcaa	780
aaggctccact	tgctgaaagt	tcagtaactg	gaatactgtc	ctttagctca	gatccaagtc	840
ctctggcatt	catcttccgc	agctctgcga	acagcctctc	tgccccgtta	ccgtcagtcg	900
acc						903

<210> 595
 <211> 879
 <212> DNA
 <213> Homo sapiens

<400> 595						
ggcacgagcg	gcacgagccg	ggctcggccg	acccggcggg	gatctagggg	tgggcgactt	60
cgcgggaccg	tggcgcacgt	ttcctgggag	ttactgatca	tcttctttga	agaaacatga	120
agttacacta	tgttgctgtg	cttactctag	ccatcctgat	gttcctgaca	tggcttccag	180
aatcactgag	ctgtaacaaa	gcactctgtg	ctagtgtatg	gagcaaatgc	ctcattcagg	240
agctctgcc	gtgccggccg	ggagaaggca	attgtctctg	ctgtaaggag	tgcagtgtgt	300

gtcttggggc	cctttgggac	gagtgtgtg	actgtgttg	tatgtgtaat	cctcgaaatt	360
atagtgcac	acctccaact	tcaaagagca	cagtggagga	gctgcatgaa	cgatccctt	420
ctctcttcg	ggcactcaca	gaaggagata	ctcagttgaa	ttggaacatc	gtttctttcc	480
ctgttgacga	agaactttca	catcatgaga	atctggtttc	atttttagaa	actgtgaacc	540
agccacacca	ccagaatgtg	tctgtcccca	gcaataatgt	tcacgcgcct	tattccagtg	600
acaaaggtaa	ctgccaacag	ttgacttttt	ccattccgcc	ccctcatgtg	gtctgtccat	660
gtaatctata	aaacctatat	aagaccatct	tttgagcag	ccttttggtt	ttgaatttgt	720
atcatctttg	ctttcaatat	ttaatttttt	cctttttact	tatttatatt	tgctaaaaga	780
ttacctactt	tattattact	ctacaaataa	ccagcttttg	cctttattgc	ttggcttagt	840
tggtcttttt	aatttgcttt	ttaaaattac	tgtttttat			879

<210> 596
 <211> 816
 <212> DNA
 <213> Homo sapiens

<400> 596						
tttttttttt	ttgagagtga	caaaaagggt	tattcctgtg	cttctcgcag	cattaggcag	60
gggataaaac	ttggagagaa	gggccttggg	gtggaggtgg	agggactcct	gtgggcttca	120
ctctggtagg	aggagagcat	cagggcaggc	ctttaggctg	ttgctctggg	caggggggtg	180
gggtgcgggg	gcttacagtg	ggggccctta	gttggcacag	gttcggaagg	gccccaggca	240
gacatgaatt	ctcctgagac	ttgaggtagg	ttgcttcagc	cagcccgggc	ggagaagaag	300
ggcagagagc	gaacatagga	gtccagtcgg	gagcgaaaga	gtcactttg	cacagtttgg	360
cccagcgggc	acaggggatt	cttcaccacc	agctccacat	acagcgcact	gtagatgtgg	420
tgcagcacat	ctcggaatgg	tcccacgccc	aagtcagtat	tcatgacaac	tttgatccca	480
gtgggcgtct	cgtagtaatg	gagtttgtaa	cggctagtgt	ggaaggccag	gaagccatcc	540
ttcatgtcta	gcggggacat	cttgctgaca	aacgagcggg	tagagaagag	catcccgtac	600
atcagcttat	actctcctc	cttggaatc	cctgcttgct	tcttgcggtg	ccattcgcgtg	660
tagtgacagc	acactccatt	ccggtcaaac	aggtacaggt	tgtggacagt	catctgcagg	720
gcagggagtg	tgagcctcgc	tccggggccg	ccccactcc	ttgggctcgg	gttcccggac	780
ccacagcctt	ccaaccagg	ggggacccca	cccacg			816

<210> 597
 <211> 1575
 <212> DNA
 <213> Homo sapiens

<400> 597						
tttcgtcccg	cgcccgagct	ttgccatcgg	cggggcagtc	gcgggatgcy	cccgggagcc	60
acagcctgag	gcctcagggt	ctctgcagggt	gtcgtggagg	aacctagcac	ctgccatcct	120
cttccccaat	ttgccacttc	cagcagcttt	agcccatgag	gaggatgtga	ccgggactga	180
gtcaggagcc	ctctggaagc	atggagactg	tggtgatgtg	tgccataggt	gtgctggcca	240
ccatctttct	ggcttcggtt	gcagccttgg	tgctggtttg	caggcagcgc	tactgccggc	300
cgcgagacct	gctgcagcgc	tatgattcta	agcccatgtg	ggacctcatt	ggtgccattg	360
agacccagtc	tgagccctct	gagttagaac	tggacgatgt	cgttatcacc	aacccccaca	420
ttgaggccat	tctggagaat	gaagactgga	tcgaagatgc	ctcgggtctc	atgtcccact	480
gcattggccat	cttgaagatt	tgtcacactc	tgacagagaa	gcttggttgc	atgacaatgg	540
gctctggggc	caagatgaag	acttcagcca	gtgtcagcga	catcattgtg	gtggccaagc	600

ggatcagccc	caggggtggat	gatgttgtga	agtcgatgta	ccctccgttg	gaccccaaac	660
tccctggacgc	acgggacgact	gccctgctcc	tgtctgtcag	tcacctgggtg	ctgggtgacaa	720
ggaatgcctg	ccatctgacg	ggaggcctgg	actggattga	ccagtctctg	tcggctgctg	780
aggagcattt	ggaagtcctt	cgagaagcag	ccctagcttc	tgagccagat	aaaggcctcc	840
cagggcctga	aggcttcctg	caggagcagt	ctgcaattta	gtgcctacag	gccagcagct	900
agccatgaag	gcccctgccg	ccatccctgg	atggctcagc	ttagccttct	actttttcct	960
atagagttag	ttgtttctcca	cggctggaga	gttcagctgt	gtgtgcatag	taaagcagga	1020
gatccccgtc	agtttatgcc	tcttttgcag	ttgcaaactg	tggctgggtga	gtggcagtct	1080
aatactacag	ttagggggaga	tgccattcac	tctctgcaag	aggagtattg	aaaactgggtg	1140
gactgtcagc	tttatttagc	tcacctagtg	ttttcaagaa	aattgagcca	ccgtctaaga	1200
aatcaagagg	tttcacatta	aaattagaat	ttctggcctc	tctcgatcgg	tcagaatgtg	1260
tggcaattct	gatctgcatt	ttcagaagag	gacaatcaat	tgaaactaag	taggggtttc	1320
ttcttttggc	aagacttgta	ctctctcacc	tggcctgttt	catttatttg	tattatctgc	1380
ctggctccctg	aggcgtctgg	gtctctcctc	tcccttgca	gtttgggttt	gaagctgagg	1440
aactacaaag	ttgatgattt	cttttttacc	tttatgcctg	caattttacc	tagctaccac	1500
taggtggata	gtaaatttat	acttatgttt	caaaaaaaaa	tcatacaactt	tgtagttcct	1560
cagcttcagt	cgacg					1575

<210> 598
 <211> 1166
 <212> DNA
 <213> Homo sapiens

tttttttttt	ttacagaatt	ccccaaactt	taatgctgtg	ctctgaaaag	ggaggctgga	60
gggtgtgggtg	gggtcacagt	ttgtctgacac	ctctggcctc	cagccctgca	tccctaggca	120
ccatgtgacc	aggcagttag	aaggacgggg	cctcactccc	atgccagact	gctcctcggg	180
ctgagcagga	cctgaagctc	tcagggtctc	caccaaagcc	cagcaaaactt	gggggaggcc	240
tgagggggca	tcagcagtc	ttaaaggcct	gagcttgcaa	cactcaggca	ggactcggct	300
gagggcctct	gtgggtgccac	catggggtag	gaggtaaaga	gagaccctgg	ttccagcctg	360
ggaaccagt	gggtgccctga	agggagggga	ggcctcaggg	agttcgggac	aggagtgtgc	420
atgggtactg	gcggcccatg	ggggctcctg	gcctcttggt	tcaggcaatc	cctgagctgg	480
ggacacattc	catcttaggt	ccaagagacg	gaggtcagga	gcatacctag	aacgacctcc	540
caggcacgag	gaaggcccg	ggcagggccg	ggcgcagcgt	ggctggcttc	agtaccctcg	600
ggcatcttga	ctcctgccct	ctgggactgc	aaagggatct	gcgggcgcct	ctgctgagtc	660
aatcgtctg	taggcactac	ggtcctgaga	agacccaagg	aaaccagtgt	ggaccaggag	720
ctcaccctcg	cgctcccgg	acatgtggta	gacgaagcag	caggagagcg	gcttgagcag	780
caagctgagg	atggccatgc	ccacgccaaa	gcggcccgtg	tccgtgaggg	tgacccgcgg	840
gtagaagatg	ctgatgtgca	cgatgtccag	gaagatgggtg	gccagcaagc	caccagaaa	900
catgcttatg	gcgtcgatgg	agtcccgtg	agccacagcc	cacacgccc	aggccaggat	960
gggtgaagt	gcccaggcat	aggagcctga	gaatacaatg	cagccccagg	ttgtcagcag	1020
ccagtgacct	aggagaatca	ccttcagggt	cacagcagge	agctccatcc	cgactcaggg	1080
cgagggcacc	tgcgccgcag	ccgcgggggg	ctcctaggct	ccgaactcgg	ggaacaaact	1140
tgccccggccc	cgccccgccc	gttgcg				1166

<210> 599
 <211> 716
 <212> DNA
 <213> Homo sapiens

```

<400> 599
tttttttttt ttgaaggaaa taagaggagg ttccctcgt acgttcattc tgtttattta      60
tttgtgtgcg caccgggctc ccgcagcct ccacccctcc cgcgtccgc tttcagaaag      120
gaacgcggcc ctcagctccc tccggaagag gccccgggt caggggctgc agccgggtcc      180
ccgtgcgtcg gccagctcg tccagcaccg ccttctcctt ctggaacatc tgctgccact      240
ctgcctccgt gccgtgtgtg aatcccagca agtgacagag tccgtgggtg gccgtcacag      300
tcaggacgtc attgtaatct tcattttctt tacactgatg gaagatatac tccactccta      360
ggaaaatgtc tcccaaattg tagtcatctg gaaaatcagg ctggggaaat tcacctgctt      420
tcagatgctc atgaaatgga aaagaaagca catcggttgg gacatttcta tctctgtaga      480
ttctattaat gtgctgaata ttctgttgt caacacagat gatccccagg tcaaatttct      540
gcactcctaa aatcctcctt acaatctcga tcttactgcg aagtggcgct ctctgatgg      600
ggatgactcg ctgcagattt ctaatcacca aactcatttc aggaagaata accagccctt      660
taaaaatggt tgcaacggaa ccggtgtctg gaccagcaa aggacgcgaa gctggc      716

```

```

<210> 600
<211> 802
<212> DNA
<213> Homo sapiens

```

```

<400> 600
ctccgcaatg ccttggaagt cctgcataga gaggtgcccc gagtcctggt caacctcgtg      60
gacttcctga accccactat catgcggcag gtgttccttg gaaaccaga caagtgccca      120
gtgcagcagg ccagcttgaa ccacttgga gcaaaacaga gaccctggac ctgagagcag      180
agatgcccat cacctgtccc actcagaatg agcccttcct gagaaccctc cggaatagta      240
actacacgta ccccatcaag ccagccattg agaactgggg cagtgaattc ctgtgtacag      300
agtggaaggc ttccaatagt gttccaacct ctgtccacca gctccgacca gcagacatca      360
aagtgggtgg cgccctgggt gactctctga ctacagcagt gggagctcga ccaaacaact      420
ccagtgacct acccacatct tggaggggac tctcttggag cattggaggg gatgggaact      480
tgagagactc caccacactg cccaacattc tgaagaagtt caacccttac ctcttggct      540
tctctaccag cacctgggag gggacagcag gactaaatgt ggcagcggaa ggggccagag      600
ctagggacat gccagcccag gcctgggacc tggtagagcg aatgaaaaac agccccgaca      660
tcaacctgga gaaagactgg aagctgggtc cactcttcat tgggggcaac gacttgtgtc      720
attactgtga gaatccggag gccacttgg ccacggaata tggtcagcac atccaacagg      780
cctggacat cctctctgag ga

```

```

<210> 601
<211> 859
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1) ... (859)
<223> n = a,t,c or g

```

```

<400> 601

```

gtggtggaat	tcctctggag	caggaggccc	agtggctctt	ctgacccaag	gccccgccgt	60
ccagcttcta	agtgccagat	gatggaggag	cgtgccaacc	tgatgcacat	gatgaaactc	120
agcatcaagg	tggtgtctcca	gtcggctctg	agcctggggc	gcagcctgga	tgcggaacct	180
gcccccttgc	agcagttctt	tgtagtgatg	gagcactgcc	tcaaacatgg	gctgaaagtt	240
aagaagagtt	ttattggcca	aaataaatca	ttctttggtc	ctttggagct	gggtggagaaa	300
ctttgtccag	aagcatcaga	tatagcgact	agtgtcagaa	atcttccaga	attaaagaca	360
gctgtgggaa	gaggccgagc	gtggctttat	cttgcaactca	tgcaaaagaa	actggcagat	420
tatctgaaag	tgcttataga	caataaacat	ctcttaagcg	agttctatga	gcctgaggtc	480
ttaatgatgg	aggaagaagg	gatggtgatt	gttggctctgc	tggtgggact	caatgttctc	540
gatgccaatc	tctggcttga	aaggagaaga	cttggattct	caggttggag	taatagattt	600
ttccctctac	cttaaggatg	tgaggatct	tgatgggtggc	aaggagcatg	aaagaattac	660
tgatgtcctt	gatcaaaaaa	attatgtgga	agaacttaac	cggcacttga	gctgcacagt	720
tggggatctt	caaaccaaga	tagatggctt	ggaaaagact	aactcaaagc	ttcaagaang	780
agtttcagct	gcaacagacc	gaatttgctc	acttcaagaa	gaacagcagc	agttaagaga	840
acaaaatgaa	ttaattcga					859

<210> 602
 <211> 2047
 <212> DNA
 <213> Homo sapiens

<400> 602						
tcaataccgc	gtccgcgccc	aggcggtgc	ccgtgacctg	cctgggcgcg	gggaactgaa	60
agccggaagg	ggcaagacgg	gttcagttcg	tcattggggct	gtttggaaag	accaggaga	120
agccgcccac	agaactggtc	aatgagtggt	cattgaagat	aagaaaggaa	atgagagttg	180
ttgacaggca	aataagggat	atccaaagag	aagaagaaaa	agtgaacga	tctgtgaaag	240
atgctgccaa	gaagggccag	aaggatgtct	gcatagttct	ggccaaggag	atgatcaggt	300
caaggaaggc	tgtgagcaag	ctgtatgcat	ccaaagcaca	catgaactca	gtgctcatgg	360
ggatgaagaa	ccagctcgcg	gtcttgcgag	tggctgggtc	cctgcagaag	agcacagaag	420
tgatgaaggc	catgcaaagt	cttgtgaaga	ttccagagat	tcaggccacc	atgagggagt	480
tgtccaaaga	aatgatgaag	gctgggatca	tagaggagat	gttagaggac	acttttgaaa	540
gcatggacga	tcaggaagaa	atggaggaag	ggaaattgac	agaattctct		600
ttgaaattac	agcaggggccc	ttgggcaaaag	caccagtaa	agtgactgat	gcccttccag	660
agccagaacc	tccaggagcg	atggctgcct	cagaggatga	ggaggaggag	gaagaggctc	720
tggaggccat	gcagtcccgg	ctggccacac	tccgcagcta	ggggctgcct	accccgctgg	780
gtgtgcacac	actcctctca	agagctgcc	ttttatgtgt	ctcttgcaact	acacctctgt	840
tgtgaggact	accatttttg	agaagggctc	gtttgtctct	tttcattctc	tgcccaggtt	900
ttgggatcgc	aaagggattg	ttcttataaa	agtggcataa	ataaatgcat	catttttagg	960
agtatagaca	gatatactct	attgtgggga	gggaaagaa	atccatctgc	tcataagca	1020
cttctgaaaa	tataggatg	tgctgaatg	tcgaagactc	tacttttgtc	tataaaacac	1080
tatataaatg	aattttaata	aatttttgct	ttagacttg	gccccattgt	agattgccct	1140
gtgcagtaaa	ctttcaagg	gtcggctgcc	ccagattgct	tcatttgctg	gggtgtgaaa	1200
gagttgctat	ggccaggcat	atgggatttg	gaagctcagc	agaagtgact	tctgctctgt	1260
ggttgctgct	ccccggcttt	cacagacatg	gtatggcagc	cattctttta	tctatttaac	1320
caagaggatg	ctgggggaatt	gtgctgcttg	tcctgttggt	tggtggctgc	attatgtcct	1380
gggggtgtgca	tgtgggtcta	tttagagctt	ctgtcccttc	cttccatttg	caagttgcac	1440
ccagatgaga	cagctgtagt	actaggtctc	tttcacctct	cattgcctgt	ccctgcttcg	1500
agctgggttg	cttgtcgctg	ggacatgggc	cttctatct	gtgttttctc	aaagtcagga	1560
gctgaccagg	agcacactaa	gggtgtgtca	tgcatcataa	ccaacattca	ctcatctggg	1620
acattcttaa	gatacattta	taaatcattt	cagcagtagt	actttgtatg	tgttgagagt	1680
ttacagagct	ctttgacata	cgcgatctta	gtctttacaa	ataaggaaaa	cagctcagtt	1740
tgggaagtat	cagagatggg	attcaaaccc	agatcctctg	gtccaagttg	tatgtgcact	1800
gaactaatca	ggcaggaaaa	aagcccagcc	actgtctcac	agattgtttt	ttgtatatgg	1860
tagcaaaatc	ctgaaacaat	ggggtccttc	cagtcctatc	atacaaaatg	gcaatcttgg	1920
ctgggtgcgg	tggttcatgc	ctataatccc	agtgcctttac	aaggctgagg	caggaggctc	1980
tcttgagaat	aggagttcaa	gaccagcctg	ggcaacatag	caagatcctg	tctctccaaa	2040

aaaaaaa

2047

<210> 603
 <211> 1927
 <212> DNA
 <213> Homo sapiens

<400> 603

agcgggtggaa	ttcgatcatg	gaacttgac	tgctgtgtgg	gctgggtggg	atggctggg	60
tgattccaat	ccagggcg	atcctgaacc	tgaacaagat	ggcaagcaa	gtgactggga	120
aaatgcccac	cctctcctac	tggccctacg	gctgtcactg	cgactagg	ggcagaggcc	180
aaccocaaaga	tgcacggac	tgggtgctgcc	agaccatga	ctgctgctat	gaccacctga	240
agaccaggg	gtgcggcatc	tacaaggact	attacagata	caacttttcc	caggggaaca	300
tccactgctc	tgacaaggga	agctgggtgtg	agcagcagct	gtgtgcctgt	gacaaggagg	360
tggccttctg	cctgaagcgc	aacctggaca	cctaccagaa	gcgactgcgt	ttctactggc	420
ggccccactg	ccgggggacg	acccctgggt	gctagaagcc	cacaccctct	accctgttcc	480
tcagcatgga	gctctggcat	ccccacctca	gtatctaacc	tgaaccagcc	tggttttca	540
aacactccgg	ggggaggtag	tccagcctc	ccccggaacc	ctctaccaat	gccttctgac	600
cttctgaagc	tttccgaatc	ctcccagttg	aggcagtagc	tgtgtcctct	gaggggtggat	660
gggaatcttg	ggagaagccc	aagcaaggga	gccctcagag	gtgggtgtttg	gaccaaagca	720
tcgggggtggg	ggaggggtct	gccgctgtcc	cccacctgct	ggcccccttg	tccttctca	780
ccccctccaa	tatagtctcg	gagctacaac	cgcagcagcc	actataaagg	gcaatattga	840
tctttctgtc	catgtggctc	tatcttttaa	aacctcaagg	ccctccactg	tcctaagata	900
aagcctctca	taggcactgg	ggaccctgca	cagtctggcc	atgtgacct	ctccccaggc	960
aagctctgaa	gtccctgcag	gtggaggcca	tgctgtctt	aaactcagtt	gcatccctgg	1020
tgcccaaagc	aacaccagaa	ccaagaaggga	gtccataaaa	tccttcttgg	gtgaagccta	1080
gacaaagccg	ccaggtcttg	tggctccagg	caccagagcc	ttgagtactt	tctcctgcct	1140
ccaggcattg	gctcaggggtg	aattacaagg	ggctactgaa	tggtattac	tttcatcacg	1200
actgatcccc	acctcctcag	ggtaaagg	ctactttctg	gaagtctccc	caggctgact	1260
ccttctccct	gactgcaagg	gctcactccc	tcctccaagc	tcccacaatg	cttcatggct	1320
ctgccgctta	cctagcttgg	cctagagtgg	caaattggaac	ttctctgata	tcccccaact	1380
agactggagc	ccccgaaggga	tggagaccat	gtctgtgcca	tctctgtttc	ccctgttttc	1440
ccacatacta	ggtgctcaat	tcatgcctgt	gaatggcggtg	agcccataat	ggatacacag	1500
aggttgcagc	agatgggtgtg	ggtacctcac	ccagatatct	tccaggccca	aggccctct	1560
ccctgagtga	ggccaggtgt	tggcagccaa	ctgctccaat	ctgcctcctt	cccctaaata	1620
ctgccctggg	ctagtgggag	ctgccttccc	cctgccccac	ctctcccacc	aagaggccac	1680
ctgtcactca	tggccaggag	agtacacca	tggagggtac	aattgccagc	tccccctgtg	1740
ctgtgcagca	ttgtctgggt	tgaatgacac	tctcaaattg	ttcctgggat	cgggctgagg	1800
ccaggcctct	cctggaacca	cctctctgct	tggctctgacc	ccttggccta	tccagtttcc	1860
ctggttccct	cacaggtttc	tccagaaagt	actccctcag	taaagcattt	gcacaagaaa	1920
aaaaaaa						1927

<210> 604
 <211> 630
 <212> DNA
 <213> Homo sapiens

<400> 604

caaccccgcc	gccggggaca	tgtccaaccc	ctgaagccgg	aggaacgggc	cagtcagact	60
gcgcccgaca	ggtatattga	aaagtctgat	tcagttacaa	tcagtgtatg	gaatcacaa	120
aagatccata	agaaacaagg	tgctggattt	ctccgttggt	ttcgtctttt	tccagtgcc	180
tcaaccacct	caaagacact	ggttatcaga	ggttggattt	atgcaaactt	gggcccagg	240
acagttagaa	gacagtagct	gaagaagcat	ctgtaggga	tccagaagga	gcattcatga	300
agatgttaca	agcccgaag	cagcacatga	gcactgagct	gactattgag	tcggaggcgc	360
cctcagacag	cagtggcatc	aacttgtcag	gctttgggag	tgagcagcta	gacaccaatg	420
acgagagtga	tgttagcagc	gcactaagtt	acatcttgcc	ttatctctca	ctgagaaatc	480
taggtgcaga	atcaatattg	ttaccgttca	ctgaacagct	atcttcaa	gtacaagatg	540
gagataggct	cctgagtatt	ttgaaaaaca	atagaaagag	cccctcacag	tccagccttc	600
taggtaacaa	atttaaaaaa	aaaatatttg				630

<210> 605
 <211> 783
 <212> DNA
 <213> Homo sapiens

<400> 605						
tctgcctctg	accctccttc	tcgtctctcc	ctttgcccac	ctgctcctcc	caactggcca	60
tgaccaaagc	ccgtgctggc	accctggccc	agctctgagt	cctgggaccc	tcggtcctct	120
ctcctggggc	atggccaact	caggcctcca	gctcctgggc	tacttcttgg	ccctgggtgg	180
ctgggtgggc	atcattgcta	gcacagccct	gccacagtgg	aagcagtctt	cctacgcagg	240
cgacgccagc	atccagctga	ggtccaaggt	ctttgtccta	gaatcagagt	ggggaggggg	300
cagcctgggg	ctgccagag	actgtgggtg	gagctgcctg	ctgcactcag	cagtgcggtc	360
agagaagggc	ttttggtctt	gaagtccagg	taccatcccc	ccttagcata	cagggggaag	420
ggcctgagag	gaatgtaagg	aaaccagccc	agatcagtcc	caaggccaga	gtcctttgtc	480
ctacatctcc	ctgaaccaga	gtgtgccttg	cccctcatgc	tcagacctct	cccccccaa	540
accctctccc	gggactcagt	ctccctggcc	actgcgtatc	aggttctctg	ggaaagcatc	600
catcacagaa	cctccccttc	cctgccacgc	accttccttg	gccagctcca	ttctggcctc	660
ctccaccacc	tgcttctgta	ccacatctcc	caccacgtcc	ccagatctca	agaacgcagc	720
tcagcttctc	cttcgagctt	gactcttaag	agggaaaagt	gacggaaacc	aattcagatg	780
aag						783

<210> 606
 <211> 2513
 <212> DNA
 <213> Homo sapiens

<400> 606						
cgaccacgc	gtccggccgc	cgctcttaca	gccgcgcgcg	ccgctgttgc	cgcggttgt	60
tattcttaaa	atggcgccgc	tagacctgga	caagtatgtg	gaaatagcgc	ggctgtgcaa	120
gtacctgcca	gagaacgacc	tgaagcggct	atgtgactac	gtttgtgacc	tcctcttaga	180
agagtcaaat	gttcagccag	tatcaacacc	agtaacagtg	tgtggagata	tccatggaca	240
gttttatgac	ctttgtgaac	tgttcagaac	tggaggtcag	gttcctgaca	caaactacat	300
atztatgggt	gattttgtag	acagaggtta	ctatagtttg	gagaccttca	cttaccttct	360
tgcatataag	gctaaatggc	ctgatcgtat	tacacttttg	cgaggaaaatc	atgagagtag	420
acagataaca	caggtctatg	gattttatga	tgagtgccaa	accaaataatg	gaaatgctaa	480
tgcttgagga	tactgtacca	aagtttttga	catgctcaca	gtagcagctt	taatagatga	540

```

gcagatTTTTg tgtgtccatg gtgggtttatc tctgatatac aaaacactgg atcaaattcg 600
aaccatcgaa cggaatcagg aaattcctca taaaggagca ttttgtgac tggtttggtc 660
agatcctgaa gatgtggata cctgggctat cagtcctcga ggagcagggt ggctttttgg 720
agcaaagggtc acaaagtgtt ttgttcatac caacaactta aaactcatct gcagagcaca 780
tcaactagtg cacgaaggct ataaatttat gtttgatgag aagctgggtga cagtatggtc 840
tgctcctaata tactgctatc gttgtggaaa tattgcttcg atcatgggtc tcaaagatgt 900
aaatacaaga gaaccaaagt tattccgggc agttccagat tcagaacgtg ttattcctcc 960
cagaacgaca acgccatatt tcctttgagg ccttcgcccc tcctgctgac ccatttttct 1020
gccctcttct taccccaatt ttcttgatt accctctaca atatactttt tattgagcac 1080
tttgctgtcg aaatgctgcc tcttgccctt ttttttttta aattttaaat tatctaaatt 1140
tattgttgggt ggggggtgtc tatagcaaag tttttctatc aattttcccc catcccatcc 1200
ccaccctgga ctcatgtgag aagacttgag aaatgtctta atactcacac tgctgcatgt 1260
agctcttgct tatttactgg tctgggaaac aggatgtgtt tccttttttt aaaagccaat 1320
tgacagatta cacctaaata ctctccttt tgtatcattc agccttttgt tttagtttgg 1380
taagttttta gaaatttcag cagcaaagt gttattcagt gggcacgat gactccaaat 1440
gcctcaagtt atgtatacct gtcccagatg taaactcat tgcctttgt tggtatgat 1500
tttaaatgga tataaaataa attggtctaa agggctgccc tccttggtgt gtttttaaat 1560
tttagttaaa aactgctaca gcttatgact ttgtacttta agataattgt attgatcttt 1620
tttcagattc ctgtatttt ttaataaagt aatcttaaat aaaactcaga taggttaagt 1680
gttagaaatt ttaaacagct tacattgtta gcgtaaagt atcttttctt ttttctaat 1740
cagagttctt gaccttttg ttattgagtt taaaacttca attgaaattc aatagtattt 1800
atttttgaaa aaaatcacta aactgtgctt aaagaacata actgccatat taatgttttg 1860
gtttatatcc tctatagtaa tagaaaaaca ttaataactt gtaatgctga tgtgttaatt 1920
tgataccagt tgagtagaat gtgatcaatc cagtttaca tctatcatga gtattattaa 1980
ctaaaatcta tgtgcttttc aataggaatc attcttctct tgctgtaaca cttgacctta 2040
acttttagaa agtggttcatt tttaaactgc aactggaaag gttgaaaagt taggactctt 2100
gtatttgtga actgtaatct gaagcagatt atttaaagt tagaaaaaga aacaagttct 2160
tttttgcaaa ggtctgtgat accatatttc agctttgtgt aagtaatttg aatatccaaa 2220
gggttgggat gatcagttct gaatatgcaa ctgtccactt aataaggaca agtattccag 2280
tatctcttat gactgtagtc ataaatgat ttggaatgta cattttgtga aatagtttgt 2340
atccctttac tatgattaat tttgttatt ccaggaaata cttgtgaagc cagccaatta 2400
ataaagcact ttagcatctg ttcaggtagt ttgaaaacc aacttttccc cttcaggata 2460
agaacttcca ggttacctaa aaatgcaata aaaatcttta tagtctaagc ttt 2513

```

<210> 607
 <211> 768
 <212> DNA
 <213> Homo sapiens

```

<400> 607
gattattaaa gcttcgccgg agcgcgggct cgtccttcca ctccgccagc ctccgggaga 60
ggagccgcac ccggccggcc cggccccagc cccatggacc tccgagcagg ggactcgtgg 120
gggatgttag cgtgcctgtg cacggtgtct tggcacctcc ctgcagtgcc agctctcaat 180
cgcacagggg acccagggcc tggccctcc atccagaaaa cctatgacct caccgcctac 240
ctggagcacc aactccgcag cttggctggg acctatctga actacctggg cccctcttct 300
aacgagccag acttcaacct tcccgcctg ggggcagaga ctctgccag ggccactgtt 360
gacttggagg tgtggcgaag ctcaatgac aaactgcggc tgaccagaa ctacgaggcc 420
tacagccacc ttctgtgtta cttgcgtggc ctcaaccgtc aggtgtccac tgctgagctg 480
cgccgcagcc tggcccaact ctgcaccagc ctccagggcc tgctgggcag cattgcgggc 540
gtcatggcag ctctgggcta cccactgcc cagccgtgc ctgggactga accacttgg 600
actcctggcc ctgcccacag tgacttcctc cagaagatgg acgacttctg gctgtgaag 660
gagctgcaga cctggctgtg gcgctcggcc aaggacttca accggtcaa gaagaagatg 720
cagcctccag cagctgcagt caccctgcac ctgggggctc atggcttc 768

```

<210> 608
 <211> 698
 <212> DNA
 <213> Homo sapiens

<400> 608
 cacagataaa gataagtttt actgtcatgc tgcttttaac ataacagagc aacatcacct 60
 aggaaaaaag tttgtaggag gattttttaat ccatataatt gtcttatggc tagataaaga 120
 tttctctgaa aaaaagaagc atgtcaggaa tctctgggtg cccctttttc ctctggggac 180
 ttctagcatt gttgggcttg gctttggtta tatcactgat cttcaatatt tcccactatg 240
 tggaaaagca acgacaagat aaaatgtaca gctactccag tgaccacacc agggttgatg 300
 agtattatat tgaagacaca ccaatttatg gtaacttaga tgatatgatt tcagaaccaa 360
 tggatgaaaa ttgctatgaa caaatgaaag cccgaccaga gaaatctgta aataagatgc 420
 aggaagccac cccatctgca caggcaacca atgaaacaca gatgtgctac gcctcacttg 480
 atcacagcgt taaggggaag cgtagaaagc ccaggaaaca gaatactcat ttctcagaca 540
 aggatggaga tgagcaacta catgcaatag atgccagcgt ttctaagacc accttagtag 600
 acagtttctc cccagaaagc caggcagtag aggaaaacat tcatgatgat cccatcagac 660
 tgtttggtgatt gatccgtgct aagagagaac ctataaac 698

<210> 609
 <211> 1256
 <212> DNA
 <213> Homo sapiens

<400> 609
 ggtggaattc cacccccagc gggcgcgggc cggagcacgg gcacccagca tgggggtact 60
 gctcacacag aggacgctgc tcagtctggg ccttgcactc ctgtttccaa gcatggcgag 120
 catggcggct ataggcagct gctcgaaaga gtaccgctg ctccttggcc agctccagaa 180
 gcagacagat ctcatgcagg acaccagcag actcctggac ccctatatac gtatccaagg 240
 cctggatggt cctaaactga gagagcactg caggagcgc cccggggcct tcccagtgta 300
 ggagaccctg agggggctgg gcaggcgggtg cttctgcag accctcaatg ccacactggg 360
 ctgcgtcctg cacagactgg ccgacttaga gcagcgctc cccaaggccc aggatattgga 420
 gaggtctggg ctgaacatcg aggacttggg gaagctgcag atggcgaggc cgaacatcct 480
 cgggctcagg aacaacatct actgcatggc caagctgctg gacaactcag acacggctga 540
 gccacgaag gctggcggg gggcctctca gccgccacc cccaccctg cctcggatgc 600
 ttttcagcgc aagctggagg gctgcaggtt cctgcatggc taccatcgct tcatgcactc 660
 agtggggcgg gtcttcagca agtgggggga gagcccgaac cggagccgga gacacagccc 720
 ccaccaggcc ctgaggaagg ggggtgcgag gaccagacc tccaggaaag gcaagagact 780
 catgaccagg ggacagctgc cccggtagcc tcgagagcac cccttgccgg tgaaggatgc 840
 ggcagggtct ctgtggatga gaggaacct cgcaggatga cagctcccgg gtccccaac 900
 ctgttcccct ctgctactag ccactgagaa gtgcacttta agaggtggga gctgggcaga 960
 cccctctacc tcctccaggc tgggagacag agtcaggctg ttgcgctccc acctcagccc 1020
 caagttcccc agggccagtg ggggtggcgg gcggggccacg cgggaccgac tttccattga 1080
 ttccaggggtc tgatgacaca ggctgactca tggccggggt gactgcccc ctgccttget 1140
 ccccgaggcc tgccggctct tccctctcat gacttgcagg gccgttgccc ccagacttcc 1200
 tcctttccgt gttttctgaag gggagggtcac agcctgagct ggcctcctat gcctca 1256

<210> 610
 <211> 417
 <212> DNA
 <213> Homo sapiens

<400> 610
 ggacttcccg ggtcgacgat ttcgtctcgt ctggctgctc gtgctccggc tgccttgccg 60
 ggtgccgggc cagctggacc ccaccactgg cggcggttc tcggagcaca aactctgcgc 120
 ggacgacgaa tgcagcatgt taatgtaccg cggggaggct cttgaagatt tcacaggccc 180
 ggattgtcgt tttgtgaatt ttaaaaaagg ggatcctgta tatgtttact ataaactggc 240
 acgaggatgg cctgaagttt gggctggaag tgttggaacg acttttggat attttccaaa 300
 agatttaatc caggtagttc atgaatatac caaagaagag ctacaagttc caacaaatga 360
 gacggatttt gtttgttttg atggaggaag agatgatttt cataattata atgtaga 417

<210> 611
 <211> 886
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(886)
 <223> n = a,t,c or g

<400> 611
 tttttatttt tttgcttttt aaaagttttt atttcaaaaa ataaagctgc agttcatttc 60
 acataaatat ctggggaggg aaggggagtg ggatggggtg ggggcttgcc ccctacctcc 120
 tcttctcttt cactactgtat tgtaaaagca aaggggatgg cttgccgaac cagcgggaga 180
 gccatatctg cttcattgtc atgtgatcag ggagaacttc attgtcaaaa aggagctgca 240
 catgctgagg gtttagcatc aagcgtgac acaggaccct ccggagatgg cgtacctcag 300
 ctctaacaga acatcggaca tacttgttct gcaggacgct tttattcttg tctttgccag 360
 aactcagccg ctccaggcac aggttcaact gctcatcata gcgatagtag tgggcttttag 420
 agtgggtcaa gctgctgaag gggaggccga ggttgctcag tgctggctct tccccagtgg 480
 gctgggtgac ccggtccaaa cctcgggact ggtagaatc ccgaatccgt ttctcttcac 540
 tgtcttgcaa gccaggcacc agcttatata cgtatgcctg catgaccgag tccagtttga 600
 ggttgagcag tggctgtgtc tcgtggatct taatgttgca catggggcag tacttgctag 660
 tttggaggta cttcacaata caactcttgc agaaagtatg aagacactct gtgatgggtg 720
 tggcatccac gaagtagccg gcgcataagg agcaacaat gtgttcattc aagtctttga 780
 tcttcaactc aacctcctcc tgacctcctt tccccagggg agactacaca acgtcggcga 840
 cacaacgcgc aggcggaatt ccaccgcntg gactaatgtc tacaat 886

<210> 612
 <211> 597
 <212> DNA
 <213> Homo sapiens

```

<400> 612
cgtagtaact gtggtggtat tccgcccattg cggctgtaga cggcatgatg gatgtttttg      60
gtgtggggttt cccaagcaag gttccttgga agaagatgtc tgcagaggag ctggagaatc      120
agtactgtcc cagccgatgg gttgtccgac tgggagcaga ggaagccttg aggacctact      180
cacagatagg aattgaagcc accacaaggg cccggggccac caggaagagc ctgctgcatg      240
tcccctatgg agacggcgaa ggggagaaag tggacattta cttccccgac gagtctgtctg      300
aagccaccac aaggggcccgg gccaccagga agagcctgct gcatgtcccc tatggagacg      360
gcgaaggggga gaaagtggac atttacttcc ccgacgagtc gtctgaagcc ttgcctttct      420
tcctgttctt tcacggagga tactggcaga gcggaaggca ccctggacca catggtagac      480
caggtgaccc gcagcgttgc gtttgtccag aagcgtatc caagcaacaa gctttttcct      540
ggtgagtggg gtctttgacc tggagcccat cgtgtatact tcacagaacg ttgctcc      597

```

```

<210> 613
<211> 1163
<212> DNA
<213> Homo sapiens

```

```

<400> 613
ccgagtcgac gatttcgtgg caggcgccag tgcaggtgt gctgctgagg cgtgagaatg      60
gcgtcccgcg gccggcgctcc ggagcatggc ggacccccag agctgtttta tgacgagaca      120
gaagcccggga aatacgttcg caactcacgg atgattgata tccagaccag gatggctggg      180
cgagcattgg agcttcttta tctgccagag aataagccct gttacctgct ggatattggc      240
tgtggcactg ggctgagtgg aagttatctg tcagatgaag ggcactattg ggtgggcctg      300
gatatcagcc ctgccatgct ggatgaggct gtggaccgag agatagaggg agacctgctg      360
ctgggggata tgggccaggg catccattc aagccaggca catttgatgg ttgcatcagc      420
atttctgctg tgcagtggct ctgtaatgct aacaagaagt ctgaaaaccc tgccaagcgc      480
ctgtactgct tttttgcttc tcttttttct gttctcgtcc ggggatcccg agctgtcctg      540
cagctgtacc ctgagaactc agagcagttg gagctgatca caaccaggc cacaaggca      600
ggcttctccg gtggcatggg ggtagactac cctaacagtg ccaaagcaaa gaaattctac      660
ctctgcttgt tttctgggcc ttcgaccttt ataccagagg ggctgagtga aaatcaggat      720
gaagttgaac ccagggagtc tgtgttcacc aatgagagg tccattaag gatgtcagg      780
cggggaatgg tgaggaagag tcgggcatgg gtgctggaga agaaggagcg gcacaggcgc      840
cagggcaggg aagtcagacc tgacaccag tacaccggcc gcaagcgcaa gccccgcttc      900
taagtcacca cgcggttctg gaaaggcact tgcctctgca cttttctata ttgttcagct      960
gacaaagtag tatttttagaa aagttctaaa gttataaaaa tgttttctgc agtaaaaaaa      1020
aagttctctg ggccgggcgt ggtggctcac acctgtaatc ccagcacctt gggaggctga      1080
ggtgggagga tcatttgagg ccaggagttt gagacctgcc tgggcaacat aatgaaactt      1140
cctttccagg gagaaaaaaa aaa      1163

```

```

<210> 614
<211> 2428
<212> DNA
<213> Homo sapiens

```

```

<400> 614

```

tttatattcca	tacatgttta	ttatatacac	actgcctata	gattctgttt	aaataatctc	60
taagaaaaaa	atcaaaacttt	tctgagcagg	tgattaagct	gaaaacaacc	aattaaaacc	120
accacttttt	aagtgcactt	tggtcacaaa	tgtaaaaatg	tttocacacc	ctttccaccc	180
tcaaacaaga	gacaaactgt	ttttgataaa	ctctagtatt	tattaaatta	taaattttgt	240
aatcaaaaag	aaaaatgcag	acaaaaaaa	cctcaaacta	taagactaga	cagcaaagcc	300
tatgggaaca	ccatgaagtg	tgttacaaac	attctgaaac	ataagttact	ggctgttttc	360
atttccattt	caataacttt	actataaaat	agttgttatt	catctatttt	gaaatcccaa	420
attcacatct	attcatacat	ttaaattatgt	ttcctgttca	taatatcaaa	catctcacag	480
gtgccaaatt	ttagtaatgg	tcttatgcca	atccatgcag	aaaaataaga	cacaatgcag	540
gagtcagatg	aggaccatta	atgcacagat	aatacaaaac	cactggccaa	aagaactaca	600
gaagttttta	aaaagtataa	agtaaacaga	cctcaagaaa	actgggttat	tactaaacag	660
ctctcaacta	ttaacaccca	agttccttac	attaaataaa	tttctcaaca	gagacatgtt	720
agacatttta	attatgagtc	tatccttccc	atacccttc	ccaccccaac	tcccaaatg	780
cactactagg	gatgagtata	atgttatgtg	ggcagaaatt	tacaggtaac	cctttcaacc	840
ttgagcatgg	agctgaagac	atttttattt	aaacttcagt	tactgtgcac	tgtccatcag	900
gccttctaga	tctgacactg	acactcactg	ttccaccccc	tgtactgat	cgatcagttc	960
ccgatcgatc	tgatcgatcg	ggtactgtct	ggtttgcatt	agaaaccaa	agtccttgtt	1020
gggtcaagga	gtgctgtgca	acaactgcag	atacatcctc	actatcacta	ctggcatctg	1080
attcagtttc	ttcaatggag	gtgtctgtgt	ctggtaacct	gcctgaagat	ggtgattcat	1140
gatcttcttc	tccttctccc	ctatgactcc	tttcagctgt	gttgtctcca	ctgagttgta	1200
aatgagcaaa	agagtcttcc	agagaagtgc	ttgcatcagg	ggatggtgtt	gcagggcttg	1260
ttactgacc	atctactgat	gttaggggccc	ttacagaaga	cactaggggc	tgaacagaag	1320
ctccactctg	tgctgataca	ctgtccgctc	cgtcagcaga	gctctctctt	gctaggttta	1380
cggattatgc	atcacagtct	agcctaagtc	cagctactcc	cttctttggt	atatctatta	1440
tatctcgctt	aatcttctctg	cgacgtccat	gttcatttct	cctatattga	accatgtttt	1500
caagatcagc	gacatacaga	aagccagcaa	ttaacatttc	agtgttcttt	ttacctttgg	1560
aaaaagcatc	ttccagctct	ctactagtgc	gctcatcgta	ctgccaccac	ccatttcttc	1620
cttcataata	ccatgcatat	tcaccatttc	ctctacttgc	tgccttgagt	tcttctggtg	1680
acaacaagg	tggcttgtca	aggaaatcct	cggaatttct	ttgtcgacaa	agagcacacc	1740
gctttccaag	ccatgaagct	cctttttacac	atagatagca	gaaaacgtgc	ttacagggca	1800
gactgactgg	atgaacacat	gtttgcagac	aaatggcaca	ttcagggacg	gttaaagaag	1860
gtcgactatt	agaacaggac	tcgttcgctt	tcctgtttgt	aggaagcatg	tttattgaa	1920
gatcaatttc	accacagcca	gccatcctgc	aaatcagagt	ttacaaagct	caggtaaaaa	1980
tggacaaaaa	aagtgttttg	taatcactaa	agcttcataa	aggtaacaat	catataagac	2040
caaaggagaa	aataacatga	atattgaaga	tcccatttct	attacagatc	ccacagatgc	2100
ctgcacacaa	aataaagcat	tttcttcacc	agcagtcagc	cagcttacag	tattttctct	2160
tccactgctg	gttcattctt	tgtgcggccc	ctgacccccc	cgccgcccc	ctcagggccc	2220
gagcgcaagg	ccgacccgga	gtacgttgcg	gctggaggtg	acaccgcgag	ctatgcctcc	2280
tctccccgag	tgaggatcct	agagtggccg	gcttcaccc	tgtcccccg	agagggcctc	2340
gctccgactc	ccacctctcc	ggccacagct	geggccacct	cgcagtcttt	tctctctggt	2400
ctcggagccc	gcagctgccc	ggaacgcg				2428

<210> 615

<211> 5653

<212> DNA

<213> Homo sapiens

<400> 615

tttttttttt	ttgggtttct	actgaaactt	attatttgcc	attaagaatt	gcaaactata	60
ctactaagaa	tgaacaacat	tctcttcatt	aagccttttt	caaaacacac	gagacaaagc	120
tccccttttg	tcaaggtgtc	ccacacattc	ccactgcagc	tcccagcaca	gcggcgccacc	180
atgaactcgg	acgcggagcc	caaggaatgg	agatcgccac	agccttccct	gcttccccac	240
cccaactaca	cccaaggag	aaaggatag	aggaaatata	ctatgtcttc	aatgcttggg	300
gggctggggg	tgtcctctgc	taccaggtgg	gccggtcagt	gccgactgtc	cggcgcgctg	360
cctcggggat	ctccggctcc	ccgacctaca	caagcagcag	cagcagcagc	agcgagtctc	420
gccaacgcgc	cagtagctgc	tcatgagaaa	agtgccacg	ctccccaagc	cctcctgttt	480

acatttccta	gtggggcaaa	gctactttcc	caggacaggc	agcagagcag	tggggcagag	540
tgcactctgg	gacccgggac	agcaggttac	acagggctcag	gcgggtgggtg	gtgctggaat	600
cggggctgag	gttctggaaa	tgccaccagg	tgatgccacc	ctgtgggtgtc	tgcccaccac	660
acaccacaag	actcaagtgg	ttttccctt	ttggccctaa	accacctaac	acctcagcgg	720
catgggaggg	caattctcag	caaggcaagg	acatggggaa	ggctcctggg	agaggcacgc	780
cgtccaccct	caagcctgac	tgtcacaggt	ggaggccccc	ccccccccc	gtcaccacac	840
ctgggggaagc	tgccacagaa	tgccacagca	ctggaaagg	acactctgag	ggcaggctcc	900
agcagcagct	ccaggacagc	cagccgcctt	tctgcccagg	ccgaccacgc	tgtgtcctgt	960
gcacgccatc	ttcaggtttc	ccacacccc	acttcttgaa	tacttttctc	cccaaagcaa	1020
ggaggaacct	cgccttcgtt	cctccaacct	catctcccac	tgaggtagcc	cttgtagaagc	1080
caggctgggc	agagaggaca	cagcgggtgg	cgcgcccccc	tcgagagcag	cccagtcctt	1140
gggcgtgggg	ccgcagtgtg	gctgcgcgtc	ctctcacgcc	agcctgcaca	ggtcttctga	1200
gactgactca	gggagcgccc	cagaaattca	tgtctgtgtc	tgacaacttc	aaacaggact	1260
ttaattccaa	accaaccaca	gaaccggcgc	ctgggagcaa	gtgggactga	ggcccagggtg	1320
ctaacacggg	gctggcagtg	tcgagagaac	gctctggaag	ctcctaacag	acggctccgc	1380
gtgcggatgc	acaggccctg	acgggcactc	tgagctgggc	agtctgacac	caagcagtaa	1440
ggcctcccgg	gcagcgcagc	ctcagtcac	gagcacagcg	ggtggccctc	tggggggagg	1500
cagcacgggg	cgcagccctc	gtcagggcag	cgggcgggat	ggatgaaacg	cagcggcacc	1560
aggagcccca	ggctctcaca	ggtgccaccc	ccgacccag	gattttcaaa	gggacaggat	1620
ttcaaagtct	tcactctctg	agtccaagaa	tctttccagt	cgctctacat	cagaagaatc	1680
tagaaggaac	aggacatagc	gcacagggca	tcttgggtgg	gccacctggg	tgtgagtcaa	1740
gggccccttg	cgtggggcag	actgagcagt	gcctgctctg	cagcccacag	acagctgtcc	1800
ccatgcgggt	gtgaacaggt	ccgggggttg	tgacagacct	cgaatatggg	gggagggagc	1860
agagaagagg	agcagggcag	ggtgaggagg	gcagggggcg	gccggcacaa	tctcagcct	1920
gaggggcctc	tgtcccgcgt	ctgaccctcg	aggttaatcg	gagtgggtcc	attgaccttg	1980
ccttgtttgt	agagtttccc	acagggagac	agagatgagg	aggacgcgct	cacggccact	2040
cacttcaactg	cacgagccca	ggcgggctcc	tgccgcacgc	tggccatggt	ccgaggggtc	2100
tacgccaccc	atggccagtg	gtgcccagt	gaaccagtcc	cccacccagg	actgcgtcac	2160
cacagagcct	gcattgtctg	tctgctccag	acccctgagg	actccatggt	agcacgccc	2220
gctccacagc	gccccggcag	gcagcgtctg	tggggaagac	gaggtgggtc	ctgggctgct	2280
gggcgcaagc	ttggaggagg	ggacgctcca	ctccatacct	ggtctcacag	gcgaaccact	2340
gccaagtgtc	cacggctcag	gctcacacac	acttaatgg	tcaaaaccaa	ggggggccagg	2400
actggggaa	caagggcaca	gatcgtacct	ccgagggacc	ccacctggac	ttggcagctc	2460
tcacctagg	acaggttcag	gacgtcgggg	caggccagat	gtgaaggctg	ctgctccacc	2520
agctcaaaca	tgggcagggc	acctccaagc	agagacagct	ttttgacttg	ctggcaccaa	2580
tactgaagt	catcttcagt	cttacagaaa	aaccctaaa	acgaaatgac	gatgagcaga	2640
acacgacacc	cccattctgca	gtcggataag	aggtgggggc	ttccattccc	actgccagt	2700
gcgcagcaga	ggccccccagc	atgcaggtgc	tggacattcc	agcctgcctt	ggctcctgtg	2760
gccgggaatg	gagctccgag	ggtgcccctg	cctgtgtccc	ctgcaccagt	gccgggctcc	2820
cctcgggctc	catcgcgttg	ctgtgccttg	attcgccac	gagatgttac	gtgggtgtgca	2880
tctctcaaac	ctcaccgagt	gttcggggat	tggggcaggt	tatgagttag	ggccaagtgg	2940
ggagctcttc	tctctgtgac	tgtgagacag	ggcgcgtggg	tctcagcctt	cgcccagcag	3000
ctccctggaa	gcttggcggc	aaaggccacc	gagaactgcc	caaggacacc	gtgacacagg	3060
gagcctcctg	ctgaggagcc	aggagacagg	ggaccggcca	agggtcaccg	gcaatcacat	3120
ccttaaagct	gccgcctgta	atgacagtca	ctaggaattc	tcaacgctgc	cagatgcgca	3180
gatgtaacaa	caaaaagaaa	cgaatgggg	ggagaagctc	aaactgggca	ctctcttccc	3240
ctgaagacac	catcttgccg	cctcggcgct	gggttaggag	cactctcccc	cggggacagg	3300
ggacattcct	cctcctcacg	ggtgaggaca	ggtatcccac	caggtggccc	ctttggtctc	3360
aactcaacgt	tcacgcgtcc	actcctctgt	ctgcggtggc	tggctctcta	gcctgacctg	3420
actggttagag	tgccaatcac	tgtaaagccac	caagctgcgt	ttacagtaac	aaacatacct	3480
aattctagtt	cgacgaggaa	ttcgtgacta	ggttctggta	agaagtgtgc	gccaggctgc	3540
gcgcagtggc	tcacgcctgt	aatcccagca	ctttgggagg	ccgaggtggg	tggatcatga	3600
ggtcaggaga	tcaagaccat	cctggctaac	acagtgaaaa	cccgctctcta	ttaaaaatac	3660
agaaaattag	ccaggcgtgg	tggcggtgtc	ctgtatccc	agctaatacca	gaggctgagg	3720
cagagaatg	gcgtgaacct	gggaggcgga	gcttgacagt	agccgagatc	gcgccactgc	3780
actccagcct	gggcgacaga	gtgagactcc	gtctcaaaaa	caaacaaaca	aacaaaaagt	3840
gtgagccaca	gagctccagc	ccatgttccc	cactactgcc	accctgccc	ggaggtgcat	3900
ggagcgtggt	gtgcactctg	gggctgcgcc	acagctcaga	gaccgtccca	tttcaggccc	3960
agatctgcct	tcttctcctc	aatggggcg	gagcatccac	aacagagccc	ccgattcggt	4020
taactgcttc	cctgagcatg	tcaccgtcat	tcattgatttc	taggggggtt	ttttggcctc	4080
tttcccatc	aaatatattt	gagggcaggc	aaagtctgcat	aaatcacaca	ccaaaaatca	4140
caactaggta	atcaaaatgg	aaaaacagg	agctccttc	ttaggaaatc	ccccagagag	4200
gtcaagtcag	agcctccgga	aaacaaaagg	tgggtgcagga	gtgggtgggt	ggagggggcg	4260
cccgtgttta	aatgtgggtg	tgacgaaggt	ggtgcagggg	tgggtggagg	ggccgcccgt	4320

gtgttttaaat	gtaggtgtga	gggggacaca	ctcaccatgg	ctcacactca	tccatgcaca	4380
ctcagcacgc	gcccacacac	gctcacatcc	agacacacgc	tctctgggcc	actcgaaggc	4440
catgaaggct	gcacaggagg	tgggtgctgg	gggagggacg	tgagggtgca	aggacacagt	4500
tccgggtcct	atacccttca	gattcccaac	cacgtgaaca	cagtacttat	cccaacatgc	4560
tgaaaaaaaaa	acgcaaaaat	ccgaaagtgt	tctctgtcat	tcccaaacag	cattcagcac	4620
caaatgcctg	tgtgctcagg	tggccgccac	gtaccacagc	gatggacggg	tcaagctccg	4680
cgatgctcat	gcggcacggc	gggtgctggc	agtggaaagt	ctcgtccggg	atgaagcagc	4740
catcagtggt	ctccacgggt	ggctgcgtgg	tgtgggggtc	caggtagatg	agctcctcac	4800
caacgtagcc	gatgaagtag	tgggcgctgt	tgggcttccc	tccgatgacg	cccagggact	4860
ggggcatcat	gaagcagtgc	ttcagcgtct	ccacgtaggc	ctcgttgatg	tccgtgagcc	4920
ccagggtcag	gggaatgaga	agtaccaggg	gtctccatgg	cgacggcctg	ttggtgacct	4980
cagctccggc	agggaaatccg	ttgcagtgcc	ggtcggaatc	tgcaggaaac	gcagtggcgc	5040
ctgcacaggg	aacgctgggtc	ctgcacaacc	ttctgatttc	ctccatcaca	acagtgttgt	5100
ccattgcaat	gtggaccgcc	aaggagctcc	acgtatcgaa	gacagcaagc	ttcttcagga	5160
cctgggcgac	agtgttgggc	ccgtaccact	ggcctatgga	cttgcccttcg	ccaactccca	5220
tttgcgctat	ctggtgaatg	gagtagtaac	tgtccttcct	gtcgatgaat	gcgttgagga	5280
cgctgaagta	gctgtctggc	tgcctcttcc	tttgtgtcca	cctccaatct	cggcctaggt	5340
gccggcacac	cagggtctgg	gcaaagatca	tctgtccaca	ccgcagcatg	cagccccagc	5400
ctgtgtccga	ggtggggcct	gtccccccaa	tggctggaaa	gtttttcctg	tatgtaaacc	5460
aaagtctaga	tgccacatca	gacaagatct	cgctcttttc	tgtgaaaatg	ctgtattttc	5520
taccagtat	ccaaacgggc	tctgaggtct	caggaaaatc	ttcaaactca	gcaaaccgga	5580
gagtgtcgta	ggtcagagta	gctgcgtcca	tcttcccagt	cgggcgcgcg	actgaccgga	5640
gcggcgctgc	tcc					5653

<210> 616
 <211> 658
 <212> DNA
 <213> Homo sapiens

<400> 616	
cctttttttt	tttttataaa
ctatacagtt	acattttacac
ggactcaaag	cttttaaatga
cttaatatata	gtatgtttat
ttgctcccag	agctcccaag
caaaaatggtg	gcaaagcctca
gaatggaatc	ttgggcccatg
aagagaaccg	tggaaccacg
agccgtaccg	gaacaatggc
tgcatcagga	gcacagcggg
ctgcaatggt	ggcaaacagc
tatatgtata	tattttattt
gtcacaagtc	tatacacaca
aaatttctta	gtatagaccc
ctactgttac	caggggggtcc
agatggtggc	aggccacttc
ttggcctcac	agattccaag
ttagaagtcg	tgggtcacgg
taggacaaac	ccaggcactt
agtggaatg	ggcgcatggc
gatggaagtc	agtggtaggt
agctcagctc	gagctgta

<210> 617
 <211> 381
 <212> DNA
 <213> Homo sapiens

<400> 617

```

ccccgcgctc cgcttttggc ttctgcatgt caccagcatc aggagtgcct ggatcctctg      60
tgggatcata tggatcotta tcatggcttc ctcaataatg ctccctggaca gtggctctga      120
gcagaacggc agtgtcacat catgcttaga gctgaatctc tataaaattg ctaagctgca      180
gaccgtgaac tatattgect tgggtggtggg ctgcctgctg ccatttttca cactcagcat      240
ctgttatctg ctgatcattc gggttctgtt aaaagtggag gtcccagaat cggggctgcg      300
ggttttctac aggaaggcac tgaccaccat catcatcacc ttgatcatct tcttcttctg      360
tttctgccc  tatcacacac t                                     381

```

<210> 618
 <211> 1477
 <212> DNA
 <213> Homo sapiens

```

<400> 618
gcggccgcc  ttggctgggt tcggcgccgc taacagacgg cggcagtgcg agaaagccga      60
agatggcggt ccccgcgggc ctgacccctac gggagagccc cagcatgaag aaagcagtgt      120
cactgataaa tgcaatagat acaggaagat ttccacgggt gctcactcgg attcttcaaa      180
aacttcacct gaaggctgag agcagtttca gtgaagaaga ggaagaaaaa cttcaagcgg      240
cattttctct agagaaacaa gatcttcacc tagttcttga aacaatatca tttattttag      300
aacaggcagt gtatcacaaat gtgaagccag cagctttgca gcagcaatta gagaacattc      360
atcttagaca agacaaagct gaagcatttg tcaatacttg gtcttctatg ggtcaagaaa      420
cagttgaaaa gttccggcag agaattcttg ctccctgtaa gctagagact gttggatggc      480
agcttaacct tcagatggct cactctgtct aagcaaaact aaaatctcct caagctgtgt      540
tacaactcgg agtgaacaat gaagattcaa agagcctgga gaaagttctt gtggaattca      600
gtcacaaagg gttgtttgat ttctataaca agctagagac tatacaagca cagctggatt      660
cccttacatg atgttttcga agactgtttt ttctcatcag ctccctgcac ctctattttt      720
tgcattgaag atacattgcc aggttggtgt ttctgaagga ttcagtgaat tgctttctgt      780
aaattatatg gcttatcact tcttagacaa ataacaacca atagagatca ttgttaagaa      840
tactgagggt ctaatatact ttcttttagt ctgtgagcca acagtaatta ttaagaacac      900
tttcccttta aaggaaacaa aagtgaatac catattgttt ttactgtcat agtgttgctt      960
tcttgccctg cctgcttagt ttttacttgc tggatgatac cataatgtat caaggagcgt      1020
ccatggatac aagataagat gtgtacctta gtagaataca gagctttggg aattacatga      1080
ataaaattaa gaaaatagcc atatacaatc aaatacacta tggcattttt atttgaatat      1140
gatgagtata ttttgcttcg gaaataatat aggaaggaaa tgtaaaatag tgagtagtat      1200
ggatatcagtt aattccagtc tgagcttctc tgtcaacttc agtttctctc tcagtttaat      1260
gatttaataa tagtccaggt ttttggtgtg ttttctttat actgcaagtt aataatgatt      1320
cactttatag tttgggagac agaatcaggt cttgaataaa ataattgtaa tgagtgttaa      1380
atgggcacca ttattcgaat caaatacctt ttatattctc ttccataaa tacgttgatt      1440
tctgtcaata aaatttttgt gtcttagaaa aaaaaaa                                     1477

```

<210> 619
 <211> 917
 <212> DNA
 <213> Homo sapiens

```

<400> 619
ttttttttcc acagagcaaa aattagattg aattagcttt gatgtagtac ttgtttaagc      60
acagattttac gttgtcttag agagtaggag attgtataga atctatgctc gtagtggact      120

```

atatagaaac	tagaaatgca	gttatactga	tgtagtgcag	tttgtgggaa	atcaggaatg	180
gtgttctcca	gaatacatga	agattctcat	tgattgttgc	aaggaatcac	gaaagagatc	240
tttgggtccaa	agaaaacgtc	ttttgggcag	cagagcaatt	cgctgaagtt	gcagtaacag	300
atcatctcac	atcccttccc	atcccagaaa	tgatcctgga	cattgacatc	aatctgtgtc	360
aggtcagcta	ctccttccgg	aagggtgtga	cagttgtgat	cttttagtat	ctttctgtag	420
caagagagggc	gatttgcagg	catggcttga	actcctagca	gcaaagttag	cccaatgggtg	480
aaaacaagta	ccatcagttt	cattttggct	tttggccctt	tttcttcttt	ccttttgggtc	540
ttggcagagg	atgcttctta	aatgtctaca	ctcactgggt	gagtttgggc	aaaaggagaa	600
gagaggaggt	gctggaagga	gcttctttac	aaatgaacct	ttgtctgcct	tgtctctggc	660
ctgggatcga	cagactcgct	gctccagccc	aggactgtgg	ggaggagggg	agtggaagga	720
gacaaggctg	caaggactgc	ctcctttgga	agtgttcagt	ttgttccaaa	ccaggcgaga	780
acgaatagaa	cagcttcttt	acagagggaa	ataactagcc	tatacaagaa	cctcagggag	840
gcagactctg	gtagcaataa	aacataaaac	ctgagggatt	ttaaaagaac	acagcgtgat	900
ttttccctta	agaaaag					917

<210> 620
 <211> 2676
 <212> DNA
 <213> Homo sapiens

<400> 620						
tttcgttgca	gcgaaaggaa	atctcgctct	tccgaaagtc	ctccagggcg	agagaggaaa	60
gggcctaggt	actgtgctgg	ggtcgcacag	ccggccgaga	cagtgcgggg	acggggagcc	120
aggcttccga	gtgcgcccgg	tcactgactc	ctccgcgctt	tcctcgctgc	cctgcagccc	180
ttggttcttg	gaaacgcggg	cgccttgctc	agggctgggtg	gggctggggc	gcaagggtga	240
gctgacaatg	cccagagagga	gccgcagcct	ctgggtggagt	tcggtcgggt	gtgggggtag	300
tcaaggaaaag	aagcaaaggg	aatacctcct	ctgaaaaatg	gcagaagcag	ttttccatgc	360
cccaaagagg	aaaagaagag	tgtatgagac	ttacgagtct	ccattgccaa	tccttttttg	420
tcaggaccat	ggtcctctga	aagaattcaa	gatattccgt	gctgaaatga	ttaacaacaa	480
tgtgattgtg	aggaatgcgg	aggacattga	gcagctctat	gggaaagggt	attttgaaa	540
aggtattcct	tcaagaagcc	gtccaagctt	cacaatttca	gacctaatac	tggttgctaa	600
atggaaagat	atgaagacaa	acatgcctat	catcacatca	aagaggatat	agcatagtgt	660
tgagtgggca	gcagagctga	tgcttagaca	ggggcaggat	gagagtacag	tgccgcagaat	720
cctcaaggat	tacacgaaac	cgcttgagca	tcctcctgtg	aaaaggaatg	aagaggctca	780
agtgcacgac	aagcttaact	ctggaatggg	ttccaacatg	gaaggcacag	cagggggaga	840
gagaccttct	gtggtaaacg	gggactctgg	aaagtcagggt	ggtgtgggtg	atcccctgta	900
gccattaggc	tgcttgcagg	agggctctgg	ctgccacca	acaacagaga	gctttgagaa	960
aagcgtgcga	gaggatgcct	cacctctgcc	ccatgtctgt	tgctgcaaac	aagatgctct	1020
catcctccag	cgtggccttc	atcatgaaga	cggcagccag	cacatcggcc	tcctgcattc	1080
tggggacaga	gggcctgacc	atgagtacgt	ctgtgtcgag	gaagcggagt	gtgccatgag	1140
cgagagggag	gctgccccaa	atgaggaatt	gggtgaaaga	aacagggtta	tatgcagaag	1200
aaatccatat	aggatctttg	agtatttgca	actcagccta	gaagaggcct	ttttcttggt	1260
ctatgctctg	ggatgtttaa	gtatttacta	tgagaaggag	cctttaacga	tagtgaagct	1320
ctggaaagct	ttcactgtag	ttcagcccac	gttcagaacc	acctacatgg	cctaccatta	1380
ctttcgaagc	aagggctggg	tgcccaaagt	gggactcaag	tacgggacag	atttactgct	1440
atateggaaa	ggccctccat	tttaccatgc	aagttattct	gtcattatcg	agctagttag	1500
tgaccatctt	gaaggctctc	tccgcaggcc	tctcagttgg	aagtcctggg	ctgcttgtag	1560
cagagtcttc	gttaatgtct	ctaaggaaat	tatgctgtgc	tatttgatta	aaacctctac	1620
tatgactgac	aaggaaatgg	agtcgccaga	atgtatgaaa	aggattaaag	ttcaggaggt	1680
gattctgagt	cgatgggttt	cttcacgaga	gaggagtgc	caagacgatc	tttaacaatt	1740
caacctcaaa	tttctaattt	caccaacaac	tatttattga	gggctaggta	aaaagttctt	1800
tttgttgtaa	tcgtccatta	attcataagt	tttaaggggc	atggtgctcc	cagcaccaga	1860
aaactatcag	tgtttttaaa	gataaattac	acaaggaggg	agaaagatcc	ctgtgctagg	1920
actgcagatt	ctatacttgc	gttggectct	aactctccaa	tccagagcct	cctgcctctg	1980
gcgtcagctc	tttccctcat	ccactcactg	gggagattgg	actagatgag	tcctgagagg	2040
acacttccaa	caagagacat	ttattctctg	attttacctg	aaaaatggtag	tagttttacat	2100

ttatacagta	cagtttatga	agcactttca	tacgcaggca	tctcttggtta	cctacatcta	2160
agctgttccc	gaaagagtgt	tacagaacac	aacagtattg	tacaatattc	gataagcata	2220
tcttcactgc	acttggttata	aaaatgagtg	gtgaaataat	gttttgagac	ataatgaaag	2280
cgattaacat	ttggcaaaat	ataataaagc	ctttttgtaa	ttggtgagaa	agtcatgaag	2340
acttaagttg	cctcagggca	tctggtggca	agaggaggga	gatgggtggc	tgggcatggg	2400
ggcccatgcc	tgtaatccca	gcacttggga	ggccttggga	ggccaaggcg	catggatcgc	2460
ttgagcccag	gagttggaga	ccagcttggg	caacatggtg	aaacctcctc	tctactaaca	2520
aaaattatcc	aagcattgtg	gcacatgcct	gtaattccag	ctgctcagga	gactgaggta	2580
ggaggatcgc	ttgagcccag	gaggaagagg	ttgcagttag	cggagattgt	gcöactgc aa	2640
tccagcctga	gcaatagagc	aaggtcctgt	ctcaaa			2676

<210> 621
 <211> 6026
 <212> DNA
 <213> Homo sapiens

<400> 621						
tgggggccaat	aggaagatgg	cggagtcctg	agctgccgct	gagctccagg	cttctggggg	60
tccgcggcac	ccagtgtgtc	tggttggtgt	gggaatggcg	ggatccggga	aaaccacttt	120
tgtacagagg	ctcacaggac	acctgcatgc	ccaaggcact	ccaccgtatg	tgatcaacct	180
ggatccagca	gtacatgaag	ttccctttcc	tgccaatatt	gatattcgtg	atactgtaaa	240
gtataaagaa	gtaatgaaac	aatatggact	tggacccaat	ggcggcatag	tgacctcact	300
caatctcttt	gctaccagat	ttgatcaggt	gatgaaattt	attgagaagg	cccagaacat	360
gtccaaatat	gtgttgattg	acacacctgg	acagattgag	gtattcacct	ggtcagcttc	420
tgggacaatt	atcactgaag	cccttgcatc	ctcattttcca	acagttgtca	tctatgtaat	480
ggacacatcg	agaagtacca	acccagtgc	cttcattgtcc	aacatgctct	atgcctgcag	540
catcttatac	aaaaccaagc	tgcctttcat	tgtggtcatg	aataaaaactg	acatcattga	600
ccacagcttt	gcagtggaa	ggatgcagga	ttttgaggct	ttccaagatg	ccttgaatca	660
agagactaca	tacgtcagta	acctgactcg	ttcaatgagc	ctggtgttag	atgagtttta	720
cagctcactc	aggggggggg	gtgtctctgc	tgttctgggt	actggattag	atgaactctt	780
tgtgcaagtt	accagtgcctg	ccgaagaata	tgaaggagg	tatcgtcctg	aatatgaacg	840
tctgaaaaaa	tcactggcca	acgcagagag	ccaacagcag	agagaacaac	tggaaacgcct	900
tcgaaaagat	atgggttctg	tagccttggg	tgcagggact	gccaagaca	gcttatctcc	960
tgtgtgcac	ccttctgatt	tgatcctgac	togaggaacc	ttggatgaag	aggatgagga	1020
agcagacagc	gatactgatg	acattgacca	cagagttaca	gaggaaagcc	atgaagagcc	1080
agcattccag	aattttatgc	aagaatcgat	ggcacaatac	tggaaagagaa	acaataaata	1140
ggagacttta	gcacacttca	cttgtttcta	gaagtccaga	atthttggacc	tccacgtgaa	1200
aaactgttc	ttacctctga	actgggggct	cccataaggg	ataattttcc	tcagagttagc	1260
aaagtttctc	ttattagaga	aactcttgta	ctcagatgaa	gtcagggata	gaagaccctt	1320
ggacctggca	ggttaatgct	gattattcct	tggcctttcc	cttgatttta	tgcaagggaag	1380
gatatactga	gctgatactg	ttccaagcct	acaacttcaa	gttttatcat	ttgaactcaa	1440
gtacttttgc	tgctgaggaa	tggaatcaaa	agaacgtagt	ctcctgggtga	ccacctcaga	1500
tctctattat	taggctagat	gtatagcctc	tactccccca	gcttcttgct	cttgaccctg	1560
cactgtaaat	tgcccttcta	ttagcagcca	aggaaaaggg	aaacatgagc	ttatccagaa	1620
cggtggcaga	gtctccttgg	caatcaacca	acgttgctat	gaaatatgcc	tcacactgta	1680
tagctcatta	taggacgtca	ggtttggtga	aaaaagtggg	caagacatga	ttaatgaatc	1740
agaatcctgt	ttcattgggtg	acttgataaa	agacttttta	atthtaactt	tgctctaaga	1800
ctgcttgtea	tgatttcaaa	ttagaaaatt	atataattgc	aaacagcttc	acttctcctg	1860
ttcaacagag	gcttaaggcc	agatgtccaa	acttgtctca	ataaggaggt	gatattttac	1920
taaagtttcc	cacgtgcaca	tactgactaa	atacagagct	aggcccagtt	tgtattgtac	1980
tctgaactta	atgcaaaagtc	tccttgggtga	ttttcgcaaa	gtccgtggat	ttgggtcaga	2040
ggcacatttc	atacataaca	gcccttataa	acgtttgccc	tgccctcaca	ttttacagta	2100
tcttaaaaca	gtacattttct	ttcaaagaat	tttatctcta	tgagttagta	ctccaactta	2160
gggggggtccc	acattgggtgg	gaccaggagg	catcagcatc	aaccggggga	attggttcaa	2220
cttaactctt	ataacctatg	aactcagaaa	ccctgggggt	gggctgagca	gtctgtttta	2280
gaaagccctc	catgtgattc	tgatgcatag	tagcctatga	cataattcca	gaccagggtga	2340

atctcaagat	actaatcctc	acatcatttg	ccttctcata	tttccctcgt	cttgaccatc	2400
tggtgcctgt	tatgcagttt	aacattctcg	agcaataaaa	gtgtttttatt	ataaagtatt	2460
aatttttaatg	ttctatactt	agtgggaacc	actggctctca	aaatttgaag	ctattcttta	2520
agaggagaaac	attcgcaaaa	ctcaagcata	cctgggttttt	ctctgtagta	cttttgaatg	2580
ctttatcttc	cttacagaat	aacttgtctt	ccttatgctt	caagctccaa	aagggttaagg	2640
aagaagtctt	aatcattttt	gtattccttg	cacaggacct	agcaataaat	tggtactcaa	2700
tgtttgctgg	atgaatgaac	taaattccca	tacggccact	ttatggaaac	taactgccta	2760
atcgccactt	tcattataaa	caaaggaaaa	tgaagataag	actgcaacag	aggccagggtg	2820
cagtggctca	cgctgtaat	ccccagcact	ttgggagccc	gaggcgggca	gactcattga	2880
ggctcaggagt	tttgagacca	gcctggccca	acacggtgaa	acctcatctc	tactaaaaat	2940
gcaaaaatta	gctgggtgtg	gtggcatgtg	cgtgtaatcc	cagctactca	ggtggctgag	3000
gcaggagaat	cgccgaacc	tgggaggcag	aggttgcagt	gagtcgaaat	tgcaccattg	3060
cactccagcc	tgggtgacag	agcaagactc	catctcaaaa	ataaataaat	aaataaataa	3120
atttaaaaaa	agactgtgac	agaaaagggtt	tagagaaatg	tgctaaagag	ttacaatttg	3180
caaatttaaa	attatatgtt	aaactataac	ctcatttgta	tcataattcat	ttattctcaa	3240
tacctgggac	atttaaggca	ttcaataatg	aattaaagct	gtgccttatt	ttggtctgca	3300
ttaaaggagt	ggtctaaatt	ttacaagata	tattttgcat	cagaaaaatca	aacttcagca	3360
gtttaacatg	ctggcatcca	tcaccaaggc	atgaagcaac	acatttgcta	atgattccta	3420
atcactacag	tgctacatca	tttacttaat	aaatactgat	tcagtactta	tataacaga	3480
tagtctgatg	gatgagtaac	cacagtgatg	ttgttcagga	catgatgtaa	agttgaaagg	3540
tgcatattgc	tatgttttaa	aggctgcctt	tacagtagaa	gcagcaaatg	gtgcttaatg	3600
gactgctgtc	ctctgatgac	caagcaaatg	caacaaatga	aatatgcaca	aggctgtcct	3660
tggaacagtac	ttgtttgctt	tgctcacaaa	ggagaaaagg	aaagaaacaa	ttgaaaatat	3720
gtatatggtg	aaagtatgtg	agtccgagca	gaaataacaa	aggcaaaaagg	atgaggagag	3780
atggagtaag	tctagagaag	aaaaataaatg	gatgagatag	agagctgtct	aagcaaaaaa	3840
ggtgtcagac	ctctgatctt	ataaataaga	cacttcaaaa	gtagcaaaaa	cagttttaag	3900
aagggtgacta	atagataagg	tgtgttgtgt	ttagctattt	cctgttaggt	attagtaatg	3960
ggttcccaat	gacctgagcc	aaaaatgaat	caagttaaat	gaaaactgac	atctgatatg	4020
agcatatatt	attagtctat	tcaagcacag	ttttgaagtt	agcaaacatc	taaatcctca	4080
catctctaca	aggtaggtca	aagtatgatt	cttctcagtt	gtacaagata	aatggctgta	4140
taacatgtct	agtcatagtt	aagacaacaa	tggggacag	tgctttggct	tgattgccat	4200
gccagcatca	tattttatct	gtgaagggtg	gtctggtgtg	ggaaaactat	aaaaactgga	4260
tgcaaaagta	aaatgcaacc	ttgtttgggtg	acgtccagtt	cctctggaat	taggaaaaac	4320
cacttgtgtt	taagaacagg	agtcaaatca	atttttaagg	aaacagattc	taatacaaaa	4380
accttttctg	ttgggtctag	taggtctgga	caaaacatct	ccctcttttc	cttttatatt	4440
ttcctcatcc	tcttcttgca	gcgctggttg	aaaacagggg	aggaccccat	gaggctgtca	4500
gtggagtggg	aaccatagct	gctatctgag	tcactcagggc	tctgaggaat	cccagcttca	4560
ctcatgcctg	acataggctc	ctcgaagaca	tcactgccca	gcacaccatg	cccagagaca	4620
ttgccttctt	cactttcttg	aggctccatt	gctcagtggt	ccagattcca	aagaggagaa	4680
gcatttacct	ctgcacttga	agcctgtggt	gaagcttcaa	cctccagggtt	agatgggaag	4740
cgttcgctct	gagccccaag	cactcccata	ggcagtgact	ggtctccaga	agcaagggtca	4800
gcctccagct	cctcactgac	aggaaaagtg	atgtcgctca	caggttcctc	cttgatcttc	4860
acagggtttag	cgtcctctgt	ggccttctca	ggattgacaa	tcctttcata	ttcttcagag	4920
agttgcttac	taatctgtag	catgtaactg	tgatagtccct	tgatgcggtg	ctgccagaac	4980
ttctggaggg	agagcacact	gccaataccc	acttcatgga	atacctgctc	catcacatca	5040
ggaaaaggag	tctgtcccag	cgggcctcc	cgtccacag	caaaacgcag	caacttggtg	5100
aacttaaggc	aatactcatg	tgccacatca	gttagggtct	ccaggacact	ctcattagca	5160
cagtcaaagc	ccgcgtgggc	caggattgtg	gccactgcct	ggtagaggag	ctgccgacag	5220
gagtgccagc	tgagttcagt	cacaggttcc	cctttccac	gataaaagtc	actctctggg	5280
tcactgtgcc	ggatctggaa	tgggtcattg	ggattcttac	aatctaaagg	caggaggtca	5340
tcaggggagag	gagggtgacc	agggcacgag	ggaagagggt	cactctcttc	agtttttaca	5400
ccttctgtct	gctgctgatt	ctgggcctga	gctgtggcaa	taagggttgcg	aagacgtcgg	5460
ttgtgctgaa	tcaactgaat	cgtatggatg	gtgagactac	atggctctga	ggggatgtcc	5520
agcatagtgg	ggggcttcgg	cttgttggct	gcagggttgg	gcagggttgg	gtcattgact	5580
tccaccagac	gggaactccc	tgggagcaaa	tcgaaggaa	ttctgttgg	ctggcttgat	5640
gatatttgga	tctctcccca	gtatctttgc	agattcattg	tccatatgtc	tcttcaagtt	5700
caacaaacat	ttatcaaagt	ccaggcattc	tgtgtcggtc	aaagactgat	aatgtgagat	5760
ccttgccctt	accgaaagga	gcacgaagaa	caggcacgga	gccaagga	tgcccaagtc	5820
cctccagggg	tttccctcgt	cacggtccgc	cggcgaggc	gccaatcaca	gggtcctgag	5880
gtcgccctgac	gttcagggca	gccggaagac	ggggagggtc	ggacctgaac	cgagacaagg	5940
aggtaccaca	ctattcactg	ctgcgtcgca	gagcgggctg	ggcggtgtgc	tggacctcga	6000
gaggcctgag	gcaaggatcg	cgtcag				6026

<210> 622
 <211> 676
 <212> DNA
 <213> Homo sapiens

<400> 622

tttttttttt	ttgaagagag	cagattctct	ttattgagat	acgggacaca	gcgaagggtg	60
gagagacgga	acagccccc	agcctcagcc	ctctccacgg	gggccggatg	ccagagatgg	120
gagaagggat	tcagtctctc	gcccgggaaa	cccagtecca	cagagggcgc	cggcaagggt	180
gggacgcgc	ctgggtgaca	cggtgcaggg	agtctttaaa	tagaggaggg	gctggagcgg	240
ggaaacgcgc	cggggcccta	gcgcacccatg	tattccttgc	gcttattgag	ccgaacttgg	300
cagaaagaga	agcctccgag	gaggaggtaa	aggcctgcag	cgatgaaaca	gttgtagctg	360
acttgctcgt	aaaggttgta	tatgttctgg	gggccattct	caaaatcttt	ctccgtgaag	420
ggaacgtcct	caatcaacac	agcggaatgg	acattgaaaa	atattccgag	cattatcaac	480
atgatcactc	cccaggcgct	gaggacgatg	ccgcaggcgg	ccagcttcgg	cccacagcac	540
aggagcgacg	ccataaagaa	gggagtcggg	gatcgccgag	gtgcaagcgg	gctcggaaag	600
cgggtgggaga	aagcccagga	tgccctcgcc	cacgcgtccg	cccacgcgtc	cgcccacgcg	660
tccgcccacg	cgtccg					676

<210> 623
 <211> 1080
 <212> DNA
 <213> Homo sapiens

<400> 623

tttttttttt	ttcaattata	aattttat	aagaatactg	acttaacaca	ggaaacagat	60
ttaattcatg	gaattgtgca	tatggtcac	cgttacattg	tgacatgtta	atTTTTTTTT	120
atcattttat	ggcactgtca	acagattact	tgtgaacaag	atcactttgt	acgcttaagt	180
ctgcgatgct	acttagctat	ggttttctac	catgagctta	tatatagata	ggtgtaggta	240
tgtagataca	ttaatgctat	acacaat	gcatggttac	tgagcgtcag	taaaaattat	300
gaaaaaacac	ccatttataa	taaaagt	gatgtactaa	gacttgctat	tactggacct	360
tgTTTTCTGT	aaaagt	gatg	gacggttact	aaactctatg	gcactaatgt	420
atgatggatt	catttccaga	ctgtcggcca	cggaagcact	tcttcatggc	ctctgccctg	480
gacagcagcc	tgtcctccgg	gctcccatg	tttttaccag	cttctgctga	gtttctacaa	540
tcttgagctc	tgtgagaat	tcttttcctt	gaaattcttc	tacctaaagc	cccagcccc	600
aaaagagcat	gtctcaggaa	ctcattatgc	cctgagtc	caagaacttg	ttgataaatg	660
gcttaaaagt	ttttacaaga	agtaacttcc	cttggttaagg	agtaaataat	agctctggaa	720
ttttccagat	aaaactat	catttctctg	tcagtgc	atggggagag	aacgaaatat	780
tggagcccct	ctccctacca	aagagagcca	ctttctgggt	tgtgccctgg	cttaaaaccc	840
tttggctctc	gagaaccata	ctgaatat	gcacccaatg	ctaaagtttt	caggagaaag	900
catacttaag	ccaataaatg	aataatggtt	tggtttgc	tttgcttgct	tgtaataata	960
ggccttattg	aaccttggga	tgtgtcctgt	ggaaactggc	ttccccagtg	aaagatgtga	1020
tgccatgaac	tgatatgcct	ttgcatatgc	tgttccctct	ctgcaacacc	ctctcgtg	1080

<210> 624

<211> 1056
 <212> DNA
 <213> Homo sapiens

<400> 624
 tttttttttt ttggagagaa ggataagcca ttattaacc ccacgccct agcaccagct 60
 gtcacottgg acttggttga gatgcagggg ctagaaagga aatgacagag tgtacaggcc 120
 ccttogaccc cgtgtcccat aggtggtggc cccagacac accctctctg ctggcagtgc 180
 agaacatgca tccaataacc ctagaggaga aacaccaccc caggagagac cttttctgct 240
 ccaacctcct gggcaggtcc caggttgggg cagcagccat ctgcaggtgt ttgtcaggcc 300
 tggccacaca tgcggacaga ggatacgact ggggtaccct aggggtgtggg gagggtcggc 360
 ctgggggtcag ggggcatgaa ggctgtgttc cagactcctc ctgcccccaa tcctctgtgc 420
 ccctgctgga gctctcctag cttctctgat ctgtgctcct gtctttgggg agctgcccg 480
 tctccaggaa gagccagagg ttgttgatt tctccgactc cactctcgtc accccgtagc 540
 tgaccacaga gcctgcaacc acggccacta ggaggctcca ctgcaaaggg tatggaaact 600
 tcctctgaat gaacatctgc aagccaaagg ccattgccgt gcctgtgacg aagggtgaaa 660
 cgcccttcat gaaggcgtgt gactggcatg cggcatactc cccaggtccc tgggggtggc 720
 gaggcggtg aaggctcgat cccctgccct cttccttcac cgcctctcct gtccctcctc 780
 tgggcacacc ctggctgtgg aggagtgaga ccctgggcgc ttggacacgt cccacctccc 840
 ctatgcccac ccggacgccc tgagcccctt agcaagagag tgccccagc ctccgccact 900
 cttccctgac gagggcaccc ccacgcccgc gcccccgcc tcgctcaggt cagcttctgg 960
 ggtttgaggc ccggtccca gaccggcctt ctaccgggt gcttggcagc cacggcgctc 1020
 tccaccggg acagacccaa gttcaccatg gttggc 1056

<210> 625
 <211> 583
 <212> DNA
 <213> Homo sapiens

<400> 625
 ggcacgagcg agctgttgtg catccagagg tggattggg gcccggcatt ccctcctcgt 60
 cccgggctgg cccttgcccc caccctgcaa ctcttggttg agatgggctc agccaagagc 120
 gtcccagtca caccagcgcg gcctccgccc cacaacaagc atctggctcg agtggcgagc 180
 ccccgttcac ctagtgtctg catcctgcgc actcccatcc aggtggagag ctctccacag 240
 ccaggcctac cagcagggga gcaactggag ggtcttaaac atgccagga ctcatatccc 300
 cgctctccat tggggaagaa ctgagggcac ggggtggcaag tgggtcaggg atcagacctg 360
 ggcagcccac agcctctccc gccctctgcc tccacctga cagctccagg gcaagccgct 420
 gctctcagcc tccctgcctg tcccttcctt gggttggggg gagaagcagc cctgcccaaca 480
 cataccacgt gccagtgact tccctatgcc cctcgcccgc tctgcactat acagcgctgc 540
 aggcaggcat catttccacg tcgcaggcaa gacaccaag gct 583

<210> 626
 <211> 380
 <212> DNA
 <213> Homo sapiens

<400> 626
 atcagcatg gctgccccca cggatgacgg cctgaccact gctgctccca cgctttatcg 60
 acattccctg ccttctgtgc tatcttacct aggtcaccac agacgacatg tacgccaagg 120
 cctttctgat caagcccaac acggccatca cgggactga caggagaaag ctctcgagct 180
 gatgagacaa cagatttccc acacccttgg aactgatcaa atctatgagt tattacctgg 240
 aaaggacgag ctcaacatcg tgaatcgaa tgctcacaaa cgggatgcat agactgcgta 300
 cgtgagtgga gaaaaccaca tactttctga accgtagaaa aacctgtatc cagcagtga 360
 cacgctgagc tcctatccct 380

<210> 627
 <211> 1906
 <212> DNA
 <213> Homo sapiens

<400> 627
 ccacgctggt acaaagggga catcatgggc tgtggaatca tgttcccccg ggactacatt 60
 ttggacagtg agggggacag tgatgacagt tgtgacacag tgatcctgtc tccgactgcc 120
 cgggccgtcc ggaacgtgcg gaatgtcatg tacctgcacc aggaagggga agaggaagag 180
 gaggaagagg aagaggaaga ggatggggaa gagatagagc cggagcatga gggcaggaag 240
 gtggtggttt tcttcaactcg gaatggcaag atcattggga agaaggatgc tgttgttcct 300
 tctggaggct tcttccccac cattggaatg ctgagctgcg gggagaaagt caaagtagat 360
 ctgcacccct tgagtggcta gggcctcccc tccagacctg ctcttctcc ctgctcacc 420
 tctgctgggc caggcaccca gttcctgact tccagaggc ttcgtttacc cagcaggccc 480
 ctggagggtg gtagtcactc tgccccact ggtcaggcc cctgtcacgc ttctctgtgc 540
 ccacgtttct gacctggtgc tgccactgtt gtcagtccct gggcctgagt cctggttg 600
 acaggaatgg acccaaagaa tgggtgttgt atgtgggtgg tccactcgc tttggctcagt 660
 gggcttctgg gtcccccttt cctcaccgg cctgtgttg gtggagaggc gtgagcacc 720
 tatctcagct gctattcggg catgatgctt tgtagagggt agagtagaca gccccctcc 780
 ctactcacca tggattttct ccttgaattc ctcttcttg tttctttcc tggttgtgtg 840
 aaccagtgc tgctgtcata cccctggcag ggccagggga cctctctttg gtcattctctg 900
 tcctttcact ggctgctgcc ccaggaagac tcctctaggc tctccatctt tcccttgaga 960
 gctggctccc caccccaacc tgctcaggca ccacagagga tctaggtctc tggctcccca 1020
 tacctggacc cacatgggtg ggtgcctgtt gcatgtttta gagagagggg ctgtgagggtg 1080
 acaggcact agggccttca ctcttcttc ccttccatc ctttctttac cagtgcacc 1140
 catgtcccta gctcccgggt attggggctg aggtcttgg gctgtctcc ctgccagcgt 1200
 gagggcaaga cccagagcc ttagctgagc aagccagag gggcagcgtg gccccctcc 1260
 ccccttttcc tgcccgtcc catgcctcag ctgtctgctt gtgccagttg cctgtttcgc 1320
 ttcagtgttt gattctagca cttacatgtg tcctccccac caagccctct atctccttct 1380
 aatccttcaa cccctggccc cctccccgta acagtgactt ttccaggag gaagaggcag 1440
 caggagctgt tggccttggg ttgcacagag cgggtagggc tgtagggaaa gcgggtgagc 1500
 tgttggtctg ctgggcctcc ctttggccct cgttccccc cctacgatgt atgaaatgta 1560
 tgtacagacc agagatgttt atacagccga taaagatgga gtttccgtat ttatcagtat 1620
 ggccggaacc aggagccttt ctagtccact gggctaggaa caggactgct ggtgggggc 1680
 agccgaaggc agcttgctca tggggagatg tggaccaatg ttgggcccag gatgggaatc 1740
 atatgttcca tggccctggc tacaggcctg agcacagata cgtcccctgg gagatgaggc 1800
 tttgaccttc ctgtgaataa gtgttgactc caatttcggc taaagtttat agaaattctt 1860
 tattattaga caaaaataga ctctcttttt tcccctaaaa aaaaaa 1906

<210> 628
 <211> 1775

<212> DNA
<213> Homo sapiens

<400> 628

ggtggttcag	ggggcggtgta	acctggggccg	attctgcccc	agcacactgg	ttgtcgggag	60
ccccgcctcc	gctcgcggtt	gacagctcag	ctggtgccga	gcaactcgtg	ccagccagtc	120
gtgtctcagc	ctggagagtg	cgcgccaccg	cgcccgggca	gccgctggct	ccagctcacg	180
aaacagcccc	gggcgccgcg	ccgctctgag	tccagccctc	tactgagaac	agtccctccc	240
ttgtgcgggt	cgcacggcta	gccgcaggtt	cggccacgtc	aaatccattt	tctaaaaaag	300
cagggagcag	agctctctct	tgcgcgccga	cgcagaaagg	agctggggag	gaaaaagctg	360
ctgccttttg	cgctggagat	tcgtagggcaa	ggcttctcat	tttcccaggc	tgcttcccct	420
cccggttgag	gagcgtcctg	agactaagga	aagagcctgg	aaaatggagc	agacctggac	480
gagagattat	tttgagagg	atgatgggga	gatggtaccc	agaacgagtc	acacagcagt	540
tctgtttcat	tgacagcttt	tcttagtgac	actaaagatc	gaggccctcc	agtgcagtc	600
cagatctgga	gaagtgggtga	aaaggtcccg	tttgtgcaga	catattcctt	gagagcattt	660
gagaaacccc	ctcaggtaca	gaccagggct	cttcgagact	ttgagaagca	cctcaatgac	720
ctgaagaagg	agaacttcag	cctcaagctg	ctcatctact	tcttgaggga	gcgcagtcaa	780
cagaagtatg	aggccagccg	ggaggacatc	tacaagcgga	acactgagct	gaaggttgaa	840
gtggagagct	tgaacagaga	actccaggac	aagaaacagc	atctggataa	aacatgggct	900
gatgtggaga	atctcaacag	tcagaatgaa	gctgagctcc	gacgccagtt	tgaggagcga	960
cagcaggaga	tggagcatgt	ttatgagctc	ttggagaata	agatgcagct	tctgcaggag	1020
gaatccaggc	tagcaaagaa	tgaagctgcg	cggatggcag	ctctggtgga	agcagagaag	1080
gagtgttaacc	tggagctctc	agagaaactg	aagggagtca	ccaaaaactg	ggaagatgta	1140
ccaggagacc	aggtcaagcc	cgaccaatac	actgaggccc	tggcccagag	ggacaagtag	1200
gtgccttcgg	tgctcttttt	gtcgcttgtc	ttttgcccac	tctcaaggca	tacagcagct	1260
gtcctgttcc	ctttcaaggga	ctgacagtag	gagcttcact	atttctaaga	ctttatgggc	1320
ccacaaccga	agacattctt	ttcaggggtg	aattttcagt	ggtatccatt	atgaaaactc	1380
acttcatgga	ttcagtgggc	aaatagcggc	aagcaagaga	catggattca	cttattcggc	1440
aaacattttac	tgggcatgcc	acatgccaga	taccgggcta	agtatctggc	atgtgttaca	1500
gaaacaaaag	acctaaatct	tgtcaccaag	aaacatgtta	catgatttta	ataagttccc	1560
tgatagaaga	gcattgggtg	ctctggggaa	atattggagg	gtcatccatt	ccacattaaa	1620
agagcaagtt	gtctgctgtg	gtctgaatgt	ttgtgtccca	tccccacctc	cctccccccac	1680
cagtttatat	gttgaaatct	taacccttaa	ggtaataact	tctgcctcca	gaagtattat	1740
gaggtggagc	cattaggagg	tgattaaatc	ataga			1775

<210> 629
<211> 1114
<212> DNA
<213> Homo sapiens

<400> 629

gcggccgctg	ctgaggcgga	gactccccgc	cgccgcttcc	tccatcccca	gtccgcgggc	60
ctcgcgcgcg	tgcagggcgg	ttgcgcgcag	agctcttccc	tctctctttt	tcttctcct	120
cctcctcctc	ctccgggtcc	ccgcccagca	cccctcgac	caggcgggcg	cggcggagga	180
ggagagctag	acccgcgcgc	ggggcacaac	atggcggagc	cctcgggccc	ggagagcaag	240
cacaagtcgt	ccctcaactc	gtccccgtgg	agtggcctca	tggccctggg	aaacagccgg	300
cacggccacc	acgggcccgg	ggcccagtcg	gcgcacaagg	cggcgggcgg	cgcggcgccg	360
ccgaagccgg	ccccggcggc	gtgctcacgg	ggggctgtcg	cagccggctg	ggtggcagtc	420
gcttctctcc	ttcaccatcc	tcttctctgg	ctggcttgcc	ggcttcagct	cgcgcctctt	480
cgccgtcatc	cgcttcgaaa	gcacatccca	cgagttcgac	ccgtggttta	actatagatc	540
aacacatcat	cttgcatctc	atgggttcta	tgaattttta	aattggtttg	atgaaagagc	600
atggtatcca	ctaggaagaa	tagtaggtgg	tactgtttac	ccagggttga	tgataaccgc	660

tggccttatt	cattggattt	taaatacatt	gaacataact	gttcacataa	gagacgtatg	720
tgtgttcctt	gcaccaactt	ttageggcct	tacatctata	tctactttcc	tgcttacaag	780
agaactttgg	aaccaaggag	caggactttt	agctgcttgt	tttattgcta	ttgtaccagg	840
ctacatatct	cggtcagtag	ctggatcctt	tgataatgaa	ggcattgcta	tttttgcaact	900
tcagttcaca	tactatttat	gggtaaaaatc	tgtaaaaaact	gggtcagttt	tttggacaat	960
gtgctgctgc	ttatcctatt	tctatatggg	ctctgcttgg	gggtggttatg	tatttatcat	1020
caatcttatt	ccactgcatg	catttgtgtt	ggtagctgatg	cagatacagc	aaaagagtct	1080
acatatgata	tagcactttc	tacattgtgg	gttt			1114

<210> 630
 <211> 851
 <212> DNA
 <213> Homo sapiens

<400> 630	
tttttttttt	ttcagaatcc
ccacagcctt	ttcccagggc
tgctggcagg	ggttgtggtc
tgctccctatg	atcctgcact
tagaagtctg	tgccggcact
ctccggctct	ctcccagcga
acaggccccc	ggacacccag
cggccctcag	ggactcggcc
gtctgggggt	ctccttcac
tctttccaaa	aatcggagga
aggtggcggg	gctggcgag
tcgaagggtga	tgaagatggg
cggggcgagg	ccgtcagggg
cccaccggaa	gctgtggctg
tgaggcgtcg	g

<210> 631
 <211> 1320
 <212> DNA
 <213> Homo sapiens

<400> 631	
actcgtgccg	tggaattcct
ggcagccctg	gggcagcagt
tctagccctt	cactgcctgg
aagaattgcc	tgcatcccag
ggtaattgag	tcatgagggg
tggtctccct	ggctcctctc
gtctggctcg	ctcctgtctc
gcgatgacct	cattgagaag
gagagggtgg	caaggccctg
tggaagaagg	tttcaacgga
aaggcgtcca	ggggctcaac

ttggacaagc	aggaaaggaa	gcagagaagc	ttggccatgg	ggtcaacaac	gctgctggac	720
aggccgggaa	ggaagcagac	aaagcgggcc	aagggttcca	cactgggggc	caccaggctg	780
ggaagggaagc	agagaaactt	ggccaagggg	tcaaccatgc	tgctgaccag	gctggaaagg	840
aagtggagaa	gcttggccaa	ggtgcccacc	atgctgctgg	ccaggccggg	aaggagctgc	900
agaatgctca	taatgggggc	aaccaagcca	gcaaggaggc	caaccagctg	ctgaatggca	960
accatcaaag	cggatcttcc	agccatcaag	gagggggcac	aaccacggcg	ttagcctctg	1020
gggcctcggg	caacacgcct	ttcatcaacc	ttcccgcctt	gtggaggagc	gtcgccaaca	1080
tcatgcccta	aactggcatc	cggccttgct	gggagaataa	tgctgccggt	gtcacatcag	1140
ctgacatgac	ctggaggggt	tgggggtggg	ggacagggtt	ctgaaatccc	tgaagggggg	1200
tgtactggga	tttgtgaata	aacttgatac	actaaaaaaa	aaaaaaaggg	ggggccggtt	1260
taaaggatcc	aagtttactt	ccccgggcat	gcgagggttat	agttttttta	tagggccacg	1320

<210> 632

<211> 3149

<212> DNA

<213> Homo sapiens

<400> 632

cacttgattg	cagagaaggt	ctacagagca	gtgggttagaa	cttggccctg	aggacagagc	60
ttttgctccg	tatgaggctg	gcaggtaacg	atcttctcag	ttttctccca	ggaattcttg	120
aacgatgaag	gtgatgattg	tgccgtgtgg	caagaccggg	agaaccctgg	atccctacac	180
cttccccacc	cctggaatgt	cactatacat	atctgacttc	ttctgatgtt	gcctttgacc	240
ctaaagtcaa	tatgataaag	taacaagaag	ctgggacaga	ggaacaaaca	cagcccactc	300
aagcagtggt	ggcaacattc	tggttagaaag	gaggggagtc	aaagaaaaaa	acaccctctc	360
gcccattctc	ttatcacctc	cctaaagaca	gaggagaaca	tggacaccct	ccatcctgat	420
agacatgcc	tggtgtcagt	ttgtgcggt	aacaggaaaa	aaaaaaaacc	taaagatatt	480
gtagaccctt	atcttcttta	aatctcctaa	taaaaacatt	aaactttcaa	gaagattcca	540
aactgacatt	gcatagacca	actcctttcc	aaaaatatct	ctgatatact	ctccaactct	600
ctcaatatat	agaatttgaa	gtccaggagc	tgtgggcacc	tgggtgggaat	tcactgagct	660
caaggggaca	agagggtcga	ggacagggtc	cccatagggt	gacaaggcca	ggctttcttg	720
cctctgggtc	cagccagcat	caatttggtt	gtggccaaat	tctcagtcga	atcacctctg	780
cccagggcct	ggcgtgggag	gatgtggcag	gctctgtctc	cttctggggg	tcctgggtctg	840
gaggagtctc	cccaacagcg	ccaaagctgg	ctgttttccg	cccaaagccc	cagaactttg	900
aatgagaggc	aatctacccc	tgaatgcacc	tccctcctag	gctgggtgag	gtcacgcaga	960
cacagaaggg	caggacagaa	ctccccatct	tctggggggc	aattcgtctg	gacactgtgc	1020
ggtcagcttc	cttttttaag	tgccagtatc	ggtggggcag	gaagggactc	tcagggctga	1080
gcagagcctt	ctccagcgcg	agcaaacact	ctgtcccggc	tcggcaggca	ccttctaaca	1140
ttcattttct	aagggttagg	tgagtataaac	aacaacaaca	aatgctggaa	atgctctgtt	1200
cccaatgcc	gggagttcca	agaccaagaa	gcccactctc	caccagcggg	ggcagatggg	1260
gagctagggg	aggaaccctc	ccagcctggg	gagggcacct	gcaccctctc	cagagagaga	1320
agcccccatc	ccggcccccc	agctggggcc	cagcgtctgt	ggaaccagcc	ggcaggtggg	1380
gcagaaaagc	agcacctccc	ctcaccaggg	cgaggaggca	atattgaacc	gtgaactcaa	1440
gaagaaagac	ggaagaaaaa	aatgaaaaaa	gctacagggc	taagtaaaca	ccagcctgct	1500
gggtttatac	aaaatgagtg	aaatttaaaa	ggggcaggag	agtttgtcca	gggactggct	1560
ggcagccaga	accacacctc	aagcaagtta	caaggacttg	ggggaaaagt	ctgagagcag	1620
aggcttttagt	agggggcagg	gccagactgc	tccccactgg	gaaagcacac	cccttaaagg	1680
agcccttccc	ccttgcccag	aacgggggat	gcttccagag	gaaggctgag	gcttttcttg	1740
taaggaagcc	agctccggac	cagtccagcc	acagcccacc	tgctctctat	gcattccgcc	1800
cagtctgggc	agctgacctt	gagggcagag	aaggactttg	cttgctccaa	ccttccctga	1860
ggaaaaccag	ctgctcagga	cccagccctg	ggcagagggc	acggtcgggt	ctcagacctt	1920
tctcagcacg	ggtctcagac	ctgagctgga	gctaactgga	ggaagaggca	gcaccggttc	1980
ccgcccgggt	gctggacctt	gggcctctga	ctgcacagca	ggcagtgacc	aggagtccct	2040
gggaaggagg	tcaggggaagg	ggaggtgagg	ggccagtggt	actgtgctgg	gggtgagcat	2100
gtgcaaaagt	caggctgcaa	ggcagcggga	ggacatttgc	cggggggagg	caggggtctc	2160
gatctggagt	gtgggtgggg	tctgaggtca	tggctcccag	gaagaggccg	ccagcaggtc	2220
cccaggaca	caagggaagg	acagctgaag	cactaagcag	tcagacagtc	acaggtggca	2280

ggattccgga	ggcggtctgg	ccccccacc	accagggcaa	gggaacaacg	gagcaaggcc	2340
ctgctgctaa	gacgtgacca	aagccagtgc	tcctggagtg	agtggggaca	caggtagaga	2400
ggccccctca	gccacaggca	tctctacatt	taggagctgc	tgcatgtcct	cagccagagg	2460
gctgggtcag	tctccagcag	cgccggtcct	tgccagctcc	ttcttgccca	caagctgcac	2520
gggcccgcct	ggcctgcttg	gcctgccctc	tagtggttca	gaggagaata	ttcacagtgg	2580
tgccctgggcc	ttggtgggccc	aggaggggtcc	cagcatggat	gggaggggca	atggaatgat	2640
gctacgggga	gtgtggactg	gagtgcattg	aggagggcatg	gatgagatgt	ggcgagagg	2700
tgatctgaag	gggaaagtcc	ctcatggaat	gatacagggtc	tggaactccag	agaaagcagg	2760
actcttctcc	agcccggaca	cctgctcctc	aatggctttc	aatcacaact	ggctcgtaga	2820
ccccagaaga	gacctgggtg	gcaagctgga	tgccgctcag	cgtggcagag	ccatcgccgc	2880
tcacgaacag	ocggagggtg	ctgtcctcgg	tggtgtgccc	atctgtgaag	tcctggctct	2940
gcacgatctt	ctccacgatg	gcacccgat	cgatcccggt	gtcgtccacc	caggtcgggt	3000
ggctctccac	cgagtctctc	ttccgcttga	aagagcgatc	ggacagatgc	aggggcccgg	3060
gtggccgcgg	cggtcttctcc	gggggcccgt	gctcccgcctc	actgccctca	gggccctcca	3120
cggtcatgcc	aaggccccca	gaggcgctg				3149

<210> 633
 <211> 1841
 <212> DNA
 <213> Homo sapiens

<400> 633						
cagttttgga	aaagttagct	ctcggttctg	ctctgagatg	ggcagagaag	atgcggggcca	60
ggagacttac	tcaggtggga	ctgggcacag	ggcaggtagt	tgaggaggctg	ggctgcttag	120
tgtcttctag	tcacctctgc	ttgggtgat	tgacagagg	cagtcattac	agcccccttat	180
gcctcttcca	tggaacaaa	tactgtgcag	atgtttgtaa	gttaaacata	agacacagg	240
gctgttgctt	ttgaacagaa	ccctatatta	ctctcctggg	atctgagttt	ctgcagggtca	300
tttgatatga	ggaccaggag	tatctcctca	ggtgaccagt	tttggggacc	cgtatgtggc	360
aaattctaag	ctgccatatt	gaacatcatc	ccactgggag	tggttatgtt	gtatccccat	420
cttggctggc	ttcagttttt	gctgtagccc	tagagcactt	tgtttggtgg	aggctggcct	480
cttgctctgc	tccttgcatg	gacaggggga	tgaatattta	ctttcccacc	tccttgcttt	540
ttctttcact	gataccactg	aatggaactg	gtgctgtgac	tcctgctgct	ggggatttat	600
gtcccagagc	cttagcctgg	ctgagtggag	cctgagacct	gcacaacagc	tcatggtcat	660
gcattgagaga	gaagtggctg	gccacagcca	gagggaaacag	taacagccca	ggggccttta	720
ttttgggaaa	ggctgtccgg	ggctgttact	gtctcttctg	gttataaagc	agacatgtgg	780
ccatcttttc	cgcagggtta	gagtgggctc	ctttcttttt	ggaatccttt	tcttctcctt	840
tggttagcagc	tccttgccctc	cagggtcttc	gccaccagcg	tctctgctgt	gttgccgagt	900
gcagtggggg	gcaagggtct	tggttctgccc	ctgcctgaaa	gagagggctc	tggggatgga	960
gatgagaaac	aacacgctct	ccttcagaca	atgaggcatt	ctgtcctcct	gctgccatt	1020
cttcatctcc	actgagagcc	cagagtctgg	taggagccga	agttgccaca	ggcattctgc	1080
attgctctac	tcttaggttt	gtgtgtgtga	tccttcccct	ccctgttcgc	ccactcctcc	1140
ctcctctggc	tattcctaac	cctgttctgt	ggggctcttt	taataaccag	cctatggttg	1200
tggggaattg	ttcatgggca	tttagttcca	gagtggagg	gctttggtcc	tgaaataaaa	1260
tgcaagtatt	taagattggt	gttgcaattt	gtgtctaaca	agctgtagca	gagaaggagg	1320
gagtgagcgc	tggcagtatt	tcctttcata	aatcatgaat	ttatcagtgt	ggaataaatg	1380
cttcagaact	gtgctctgta	gccctctgcg	attgtgtgtg	cagctcaagt	tcaccatgg	1440
aggaaggatt	gtcttccaaa	gagctgggat	ccaactcttc	tcacagtctc	gggctgtaac	1500
cttggttaggt	atactttacc	tgatgctgct	tccatcctcg	cagtctgtct	gaggtgccag	1560
gtgctgaaag	agaaataaag	tttgtcaaca	ggcagatgca	aagccctggc	tggtattcat	1620
ccctctttcc	tgccgcctc	ccctgggtct	ctcctttata	tgatgcagca	gagcaaggcg	1680
aggatagaaa	acctacagag	gcaaatccaa	aatgtcagaa	gaagttcatt	taaaagggga	1740
aaaaaactcc	atgtgcaacc	ctcacaaaaa	cccagacagat	gctaagctaa	tggcatccgc	1800
tctgccgatt	ggtgggggatg	gctcatgaat	attaatgagc	t		1841

<210> 634
 <211> 1324
 <212> DNA
 <213> Homo sapiens

<400> 634

cgattccgga	gagggagcct	gagaaacggc	taccacatcc	aaggaaggca	gcaagcgcg	60
aaattaccca	ctcccgaccc	ggggaggtag	tgacgaaaa	taacaataca	ggactctttc	120
gagggccctgt	aattggaatg	agtccacttt	aaatccttta	acgaggatcc	attggagggc	180
aagtctggtg	ccagcagccg	cggtaattcc	agctccaata	gcgtatatta	aagttgctgc	240
agttaaaaag	ctcgtagtgt	gatcttggtg	gcgggcgggc	ggtcgcgcgc	gaggcgagcc	300
accgcccgtc	cccgcctctt	gcctctcggc	gccccctcga	tgctcttagc	tgagtgtccc	360
gcggggccccg	aagcgtttac	tttgaaaaaa	ttagagtgtt	caaagcaggc	ccgagccgcc	420
tgataaccgc	agctaggaat	aatggaatag	gaccgcgggt	ctatcttctgt	ggtttttcgga	480
actgaggcca	tgattaagag	ggacggccgg	gggcattcgt	attgcgcgcg	tagaggtgaa	540
attcttggac	cggcgcaaga	cggaccagag	cgaaagcatt	tgccaagaat	gttttcatta	600
atcaagaacg	aaagtcggag	gttcgaagac	gatcagatac	cgtcgtagtt	ccgaccataa	660
acgatgccga	ccggcgatgc	ggcggcggtt	ttcccatgac	ccgccgggca	gcttccggga	720
aaacaaagtc	tttgggttcc	ggggggagta	tggttgcaaa	gctgaaactt	aaaggaattg	780
acggaagggc	accaccagga	gtggagcctg	cggcttaatt	tgaccaaca	cgggaaacct	840
cacccggccc	ggacacggac	aggattgaca	gattgatagc	tctttctcga	ttccgtgggt	900
ggtggtgcat	ggccgttctt	agttggtgga	gcgatttgtc	tggttaattc	cgataacgaa	960
cgagactctg	gcattgtaac	tagttacggc	acccccgagc	aggagaacag	cactgtaggc	1020
atgaagatcc	aggaggagct	gcaacgttcc	gggggcctgg	accacctcgt	actctcacca	1080
ggagaatggc	ccgtgagtga	caacaccatc	atgcacatcg	caaccgcca	ggccctcacc	1140
acagactact	ggtgcctgga	tgatctgtac	cgggagatgg	tgagatgcta	tgtggaaatc	1200
gttgagaagc	ttccagaacg	ccggccagac	ccagctacca	ttgaaggctg	tgctcagcta	1260
aagcccaata	actaccttct	cgcctggcac	acaccgttca	atgaaaaagg	ctcagggttt	1320
ggag						1324

<210> 635
 <211> 519
 <212> DNA
 <213> Homo sapiens

<400> 635

cccacgcgtc	cggagcactt	tatttttttt	caagttatct	tttgcattgt	tttggagtag	60
cttcgaataa	taaacacata	tttctgcttt	aaatttttta	tagttaacta	cattcatggg	120
acaaccaaag	caagaaagcc	tcatgttttg	gggaaagtt	tgatatcagc	aatgtccaga	180
caagagccaa	agatgtttgt	cttgctctat	gttacaagtt	ttgccatttg	tgccagtggg	240
caaccccggg	gtaatcagtt	gaaaggagag	aactactccc	ccaggtatat	ctgcagcatt	300
cctggccttg	ctggacctcc	agggccccct	ggagcaaatg	gttccccctg	gccccatggg	360
cgcacgcggc	ttccaggaag	agatggtaga	gacggcagga	aaggagagaa	aggtgaaaaa	420
ggaaactgcg	gtttgagagg	taagactgga	ccgctaggtc	ttgccgggtg	gaaaggggag	480
caaggagaga	ctgggaagaa	aggacccata	ggaccagag			519

<210> 636
 <211> 1396
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(1396)
 <223> n = a,t,c or g

<400> 636
 ttgaaaccag caccttccct ttctctgagt cctgcctcct tctgcagaag ggagctcaaa 60
 agaactttgt tgttttgcc tttactctgg ggtgaaagcg gcaggaggta tgtgagatgg 120
 tgaaatgatt tgcttctgcc atgctggggg cacgggtgga tcgccctaaa ctctcgggtgg 180
 cccctcagtg agttttggaa gaggaccaag tccttgtctc tccagcagtg gacctggaag 240
 caggatgccg gctcagggac ttactgaga aaataatgaa tgtcaaagga aaagtaattc 300
 tgtcaatgct ggttgtctca actgtgatca ttgtgttttg ggaatttatc aacagcacag 360
 aaggctcttt cttgtggata tatcactcaa aaaaccaga agttgatgac agcagtgtc 420
 agaagggctg gtggtttctg agctggttta acaatgggat ccacaattat caacaagggg 480
 agaagacat agacaaagaa aaaggaagag aggagaccaa aggaaggaaa atgacacaac 540
 agagcttcgg ctatgggact ggtttaatcc aaactgaag gaatccgaat aactaaactg 600
 gactctgggt ttctgactca gtccttctag aagacctgga ctgagagatc atgcggttaa 660
 ggagtgtgta acaggcggac cacctgttgg gactgcgaga ttctcaaggg gaaggactgg 720
 gtctcatttc tcccatctca gcgcttagca ggatgacctg gtatagagca ggggaactggg 780
 aaatgtgggt caggggatca gacactccag ttgggtcttt tatataaatt aaatggcaaa 840
 aggtctcata cccttctcct tctttcctac cctccacttt atctgcaaaa tgggaatgat 900
 gataacaccc acttcataga atggtcatga agatcaaatg agagaataaa agtcaagcac 960
 ttagcctctg gtgcacaata agtattaaat aagtatacct attcctcctt ttcctttttt 1020
 taaaataata ttaccaaatg tccagcttat acacatttac aagacttagc tagtgggcta 1080
 tgtagagct actaaaagat ctttgacaag ctaaaactaa gatgcaatga atgaggtgta 1140
 acgaacaaga gagttttaag ttcagaaatg gttacagaag tataagacag ctgtgtgggt 1200
 gttttttggg ttttggtttc tgggtttaca tctcgtcatt caacaaagat gggagtttta 1260
 tagaactaaa agcaccatgt aagctactaa aaacaacaac aaaaaaggct catcatttct 1320
 cagtctgaat tgacaaaaat gccaatgcaa ataaaaatga ttacttttta ttttaaaaaa 1380
 aaaaaagnaa aaaaaa 1396

<210> 637
 <211> 1475
 <212> DNA
 <213> Homo sapiens

<400> 637
 attcccgggt cgagatttc gtggccgtcc ggcctccctg acatgcagat ttccaccag 60
 aagacagaga aggagccagt ggtcatggaa tgggctgggg tcaaagactg ggtgcctggg 120
 agctgaggca gccaccgttt cagcctggcc agcctctctg accccgaggt tggaccctac 180
 tgtgacacac ctaccatgag gacactcttc aacctctctt ggcttgccct ggcctgcagc 240
 cctgttcaca ctacctgtc aaagtcagat gccaaaaaag ccgcctcaaa gacgctgctg 300
 gagaagagtc agttttcaga taagccggtg caagaccggg gtttggtggt gacggacctc 360
 aaagctgaga gtgtggttct tgagcatcgc agctactgct cggcaaaggc ccgggacaga 420
 cactttgctg gggatgtact gggctatgtc actccatgga acagccatgg ctacgatgtc 480
 accaaggctc ttgggagcaa gttcacacag atctcaccgg tctggctgca gctgaagaga 540
 cgtggccgtg agatgtttga ggtcacgggc ctccacgacg tggaccaagg gtggatgcga 600

```

gctgtcagga agcatgccaa gggcctgcac atagtgcctc ggctcctgtt tgaggactgg 660
acttacgatg atttccggaa cgtcttagac agtgaggatg agatagagga gctgagcaag 720
accgtgggtcc aggtggcaaa gaaccagcat ttcgatggct tcgtgggtgga ggtctggaac 780
cagctgctaa gccagaagcg cgtgggcctc atccacatgc tcacccactt ggccgaggct 840
ctgcaccagg cccggctgct gggcctcctg gtcaccccgc ctgccatcac ccccgaggacc 900
gaccagctgg gcattgtcac gcacaaggag tttgagcagc tggccccctg gctggatggt 960
ttcagcctca tgacctacga ctactctaca gcgcatcagc ctggccctaa tgcacccctg 1020
tcctgggttc gagcctgcgt ccaggtcctg gacccgaagt ccaagtggcg aagcaaaatc 1080
ctcctggggc tcaacttcta tggatggac tacgcgacct ccaaggatgc ccgtgagcct 1140
gttgtcgggg ccagggtacat ccagacactg aaggaccaca gggcccgat ggtgtgggac 1200
agccaggctc cagagcactt cttcgagtac aagaagagcc gcagtgggag gcacgtcgtc 1260
ttctacccaa cctgaagtc cctgcagggt cggctggagc tggcccgga gctgggcgtt 1320
ggggtctcta tctgggagct gggccagggc ctggactact tctacgacct gctctagggt 1380
ggcattgcgg cctccgcggg ggacgtgttc ttttctaagc catggagtga gtgagcagggt 1440
gtgaaataca ggcctccact ccgaaaaaaa aaaaa 1475

```

```

<210> 638
<211> 1131
<212> DNA
<213> Homo sapiens

```

```

<400> 638
gagtggtaaa attcacagaa gttccagggt catcatgtca ggatcattcc ttgtgcaaa 60
tttgatgtag atgaagataa agtggtttct tggtaataa ttgcaattgc tttcttttaa 120
agtcagtggg tttcttggtat agttctatta caattggccc aagttaatt tcatccatct 180
ccatgaaagc aaaacacttg gtgctggtaa acctttttt aggcctgtag tgtttgaatt 240
caaagaagat agctgcacct ttggttaatt tttcaacatg cttctggagc tcaatgtcca 300
cattaaaatg aacatatgta tcttcttttc ttgaagccac aggagtatct tgcacaggag 360
ttaagtctat gccattcaga tcctttacac taactgtaat atagggattg atgcactgcc 420
cagcatcttt caaaccaatt ttctcaattc tgatagttag taatgtcatt cctggttccg 480
atggcaacct tggtaataaa gtaccgggaa ctctagcagg aaaagaatca ggagaccctg 540
ctccagcacc acctcttctc tcatcttctt caaattccaa attctcttct tcaccagggtg 600
ccaaaattct tcttaattgg acaggctgaa catcaaatgg gaattcttta ttatatgtaa 660
gaatattctt taggattggt tctagcttct tcaggtcctc cagtttaaat tcttcttgag 720
actgtgtgga ctgtaaagct gcacttcgca attccaagca tgttgcaatt ttgcctatgg 780
ttttcttttg tcttctctgt aattcagaat tattgtgttg agcttgggcc tccttttgta 840
gatgtcttgc taatatctga tactcgtcta tcgcctccac cagctggccc caagagtcga 900
agtcggcgcc tctcctaaaa ctggcgcccc agcgtgcag cagactccgg gtcacctccg 960
acatggccgg tccccacccc gtccccctcc gccctaccc cagcaaggcc gggttctagg 1020
gcgccatcct ccccgccgct ggccccgaca ttaacagggc caggaggaac cgctacggcc 1080
accaccgcca ccccgcgagg agccgccccaa gccatttgc cggccatgta t 1131

```

```

<210> 639
<211> 1844
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(1844)
<223> n = a,t,c or g

```

<400> 639

cagaactntg	ggagtcgag	gcagacagat	cacctgaggt	caggagctca	agaccagcct	60
gaccaacatg	gcgaaaccct	gtcgccacta	aaaacacaaa	attaggcctg	gtggcgcatg	120
cctgtaatcc	cagccactcg	gtaggccgag	gcaggagaat	cgcttgaacc	caggaggagg	180
gaggttgcg	taaactgaga	tcgcgccatt	gcattccagc	ccgggcacca	agagcaaaac	240
tcggtctcaa	ataaataagg	ctctaacaat	tgttctcata	ttttaacatc	cacaatgtga	300
ttcaagatgt	aatcaacata	aagcttgatt	gcattatttt	gcatgctaag	ttttccaaat	360
ccagcttcgt	gtcacaccta	cagcacatct	cactcaagct	ggccacatcc	ctgccatcca	420
gacgtaaaac	agtcacaaga	cagggctggc	agggcccgcg	aggaggccgg	cagggggccat	480
cacggagtgc	ccatcctgca	ctgtggtccc	agcaagtttc	ttcctcctgg	caagaagcct	540
gtcccaggct	ggcaggggac	agcgtgaggt	gcagcctatg	gactgggaaa	gggggtgtgga	600
agggccacac	ctaagtcccta	aaatccaggc	ccaaaagtgg	cccaactcac	ttctctgact	660
ttaatcacac	aggcatatccc	ggtggcaaa	gagtatggga	aatggagtca	ggctgggtag	720
ccacgagccc	aggaagaagg	gagaacagac	ttggagaggg	caggagtctc	tggccaccag	780
gggctaagga	gccttcgatg	aggcagtgat	gtgggtcct	gggctcagac	ccagggtggg	840
tggctaagg	gcccttgcca	ggacttagcc	accccaacag	agatgggttt	cgtgcccacg	900
agagtgcctg	tgcttgtga	cgagaattca	ccatgttttt	gtctctgcag	gcagagaaca	960
gcattgactt	catcagcagg	gagctgtgtg	cgcattccat	caggaagctg	caggcccatg	1020
tcctgttgat	caagttagtc	tggaccatcc	cccttcagtc	accccccaag	gagacatggg	1080
cgccaggaat	ctccgggagg	gggccctggc	atgaggtccc	aagttctctg	cgtgtcgacc	1140
acatcgctaa	gactcaagat	cttttttggg	aagccccctt	ggcagcaggg	tcattggaagg	1200
aggaaggcca	gaggagggga	gggctcaggc	agcaggggat	gggcccgggc	tgtcccatgc	1260
ctttccacag	gtgtcagcgg	ggggcatgcc	caggttaaggc	tcataacca	gtgagcccag	1320
tctcgactca	ctgcaacctc	tgctcctgg	attcaaacga	ttctcctgcc	tcagcctccc	1380
gagtagctgg	gactacaggc	gcccgcacc	aggcctggct	tatttttgta	tttttagtag	1440
agacgaggtt	tcgccatggt	ggccaggctg	ctctccatct	cctgacctca	tgatccgcct	1500
gcctcgccct	cccagtggtg	ggattacagg	cgtgagccac	cgtgcgtggc	ccaccataga	1560
caatttttta	gccataaaaa	gaaacgaagc	actgacacgg	gctccagcat	ggatgagcct	1620
ttaaacatc	gcgctaagtg	gacgaattca	gacacaaccg	tctacgtgtt	gtatggctgc	1680
attacagttc	aagtcaagtc	caaatagggc	acactgcaga	gacaaaagcca	ggatcaggtt	1740
gtcaggagcc	ggaagcctgt	tgggggtggg	gggggtgggt	gtgtgtgtgt	gtgtgtgtaag	1800
tcagaggttt	gcgatttctt	tgggggtgat	gaaaatgtaa	ttgt		1844

<210> 640

<211> 1210

<212> DNA

<213> Homo sapiens

<400> 640

ggaagtagga	ggagagtcag	gactcccagg	acagagagtg	cacaaactac	ccagcacagc	60
cccctccgcc	ccctctggag	gctgaagagg	gattccagcc	cctgccccc	acagacacgg	120
gctgactggg	gtgtctgccc	cccttggggg	gggggcagca	cagggcctca	ggcctgggtg	180
ccacctggca	cctagaagat	gcctgtgccc	tggtctctgc	tgctcctggc	actgggcoga	240
agcccagtg	tcctttctct	ggagaggctt	gtggggcctc	aggacgttac	ccactgtctc	300
ccgggcctct	cctgcgcctt	ctgggacagt	gacatactct	gcctgcctgg	ggacatcgtg	360
cctgctccgg	gccccgtgct	ggcgccctac	cacctgcaga	cagagctggg	gctgaggtgc	420
cagaaggaga	ccgactgtga	cctctgtctg	cgtgtggctg	tccacttggc	cgtgcatggg	480
cactgggaag	agcctgaaga	tgaggaaaag	tttgaggag	cagctgactc	aggggtggag	540
gagcctagga	atgcctctct	ccaggcccaa	gtcgtgctct	ccttcaggc	ctaccctact	600
gcccgtctgc	tcctgctgga	ggtgcaagtg	cctgctgccc	ttgtgcagtt	tggtcagctc	660
gtgggctctg	tggtatatga	ctgcttcgag	gctgccttag	ggagtggagt	acgaatctgg	720
tcctatactc	agcccaggta	cgagaaggaa	ctcaaccaca	cacagcagct	gcctgactgc	780

agggggctcg	aagtctggaa	cagcatcccg	agctgctggg	ccctgccctg	gctcaacgtg	840
tcagcagatg	gtgacaacgt	gcatctgggt	ctgaatgtct	ctgaggagca	gcacttcggc	900
ctctccctgt	actggaatca	ggtccagggc	ccccaaaac	cccggtggca	caaaaacctg	960
gtgaggcctc	ccccttccca	agtccattcc	cactgtaggc	cgatgcctgt	gcaaaggacg	1020
cagtgccata	tcagagagga	tccttgaaga	ggactcacc	caagcaaggg	aaaattggtg	1080
ggggaacttc	tgccttctctg	gtttccttga	ctttggcctc	ctcctcttcc	tccttatctt	1140
ctccaacctc	cttctcttat	ttgttccaca	gactggaccg	cagatcatta	ccttgaacca	1200
cacagactctg						1210

<210> 641
 <211> 1108
 <212> DNA
 <213> Homo sapiens

<400> 641						
catatgaaca	tttcaataaa	ggtagaaaaa	gcacttgata	ttgaatgctt	tcctcttgat	60
tttacaacca	agacaaggaa	gtccattatc	actatttcta	ttcaatagt	gacatactag	120
ccagcaacaa	aactaaaagg	tataaagatt	acaggaaagt	taaaccatct	ctattcacag	180
actgcaagat	tgtaatcaca	taaaattccaa	aagactctac	agactctaca	gtcccacggc	240
agcccccttc	tccgcgcgc	ggcgggcct	ccggcccacg	tcacgctcgc	gccattgttt	300
cccagccgct	gctcgctggg	accccggcag	ccctcgagcg	cggccattcg	ccgcgttctg	360
ccctctcccc	cctttcctca	cgctgggtgt	ggccctttcc	tcagtcctgc	tgatgtcctc	420
cagctgattc	caggctgttc	ccggccaccc	ctgaggccgt	cctttcgctt	cttgtaaaag	480
cctccccgcc	tcctgagctc	cctcggtcgc	ctcccagaaa	gccaacgggc	ctctctgggtg	540
gagcgctagg	ttgacagcgt	tttagcagga	ccgcgagaaa	ccggggagat	cctcttacga	600
ggaaaaactc	caagattaca	tcctgtttat	ctttcctcca	agtagtttct	gatcataagt	660
tatttgttta	aaaatgatgt	tttaattaga	atttatttga	tggtttttaa	aaaactttta	720
ctgacactca	acatgtttgt	ttttgtagga	actgactaag	actttggaac	agaaaccaga	780
tgatgcacaa	tattatcgtc	aaagagctta	ttgtcacatt	cttcttggga	attactgtgg	840
tgcagatgct	aatttcagtg	actggattaa	aagggtgtcg	agctcagaat	ggctcggaat	900
ctgagggtgt	tgtggggaag	tatgagaccc	tcgtgtttta	ctggccctcg	ctgctgtgcc	960
ttgccttctc	gctgggcccgc	ttcctgcata	tgtttgtcaa	ggctctgagg	gtgcacctcg	1020
gctgggagct	ccagggtgaa	gaaaaatctg	tcctggaagt	gcaccaggga	gagcacgtca	1080
agcagctcct	gaggataccc	cgcctcca				1108

<210> 642
 <211> 2418
 <212> DNA
 <213> Homo sapiens

<400> 642						
cgagatttcg	tacgagcggc	accatggccc	cgcgggggcg	gcggcgggcg	cggcctcaca	60
ggctctgagg	cgcaagacgt	tcaaagaaca	ctttagaaag	aacacattcc	atgaaagata	120
aagctggtca	aaagtgcaag	cctattgacg	tgttcgactt	tcctgataat	tctgatgtct	180
caagcattgg	caggctgggt	gaaaatgaga	aagatgaaga	aacttatgag	acctttgatc	240
ctcctttaca	tagcacagct	atatatgctg	atgaagaaga	attctccaaa	cattgtggac	300
tgtctctctc	ttcaactcct	ccaggaaaaag	aagcaaaaaag	aagttcagac	acttctggaa	360
atgaagcaag	tgaaatcgaa	tctgtaaaaa	ttagtgcaaa	aaagccagga	agaaagctca	420

ggccccattag	tgatgactct	gaaagcattg	aagaaagtga	tacaaggaga	aaagttaaat	480
cagcagagaa	aataagtaca	caacgtcatg	aggttattcg	aaccacagcg	tcttcagaac	540
tttcagagaa	accagctgag	tctgtcactt	ctaaaaagac	aggacccctt	agtgtcccagc	600
cctctgttga	aaaagagaac	ttggcaatag	aaagtcaatc	gaaaactcag	aaaaaaaggg	660
aagatatctc	atgacaaaag	gaagaaatca	agaagtaaag	ccataggctc	agatacttct	720
gacattgtgc	acatttggtg	tccagaagga	atgaaaacca	gtgacatcaa	ggagttgaat	780
attgttttgc	ctgaatttga	gaaaacccac	ctagagcatc	aacaaagaat	agaatctaaa	840
gtttgttaagg	cagccatcgc	cacattttat	gttaattgta	aagaacaatt	catcaaaatg	900
cttaaagaaa	gccagatggt	gacaaatctg	aaaaggaga	atgctaagat	gatttcagat	960
atcgaaaaga	aaaggcagcg	tatgattgaa	gtccaggatg	aactgcttcg	gttagagcca	1020
cagctgaaac	aactacaaac	aaaatatgat	gaacttaaa	agagaaagtc	ttcccttagg	1080
aatgcagcat	atttcttctc	taatttataa	cagctttatc	aagattattc	agatgttcaa	1140
gctcaagaac	caaacgtaaa	ggaaacgtat	gattcatcca	gccttcacagc	tctgttatct	1200
aaagcaagaa	cacttctggg	agccgaaagc	catctgcgaa	atatcaacca	tcagttagag	1260
aagctccttg	accagggatg	agaagagcag	tctactaaaa	tgtgcctata	ggaagactag	1320
tctcatgctg	ttaccttctg	aaactgtacc	tttataaatc	aattgttttg	caaagaagt	1380
atggcctact	tagaatctaa	aatttggtat	tcaaatataa	tggctgtgaa	caatgttaaa	1440
tagcatcagt	ttgtccaata	gttttaaaag	ccataatcat	cttttctggg	taatatcttg	1500
agtaatttta	aaatgttgac	accttaatcg	gtcccaggta	tgagctataa	taaacttgta	1560
aaattaagtt	gatgtgaaca	taattttgat	taattaataa	ggcgatttct	cctgaattta	1620
caccaaagct	aatttttaat	gaaattgggt	ttacagggaag	gtaaaaaaca	aaaattggga	1680
aaggcaaaag	aataaaaactt	agtttatata	aacagggttg	atgatataat	tatcaaactc	1740
cacagacatc	aggcaaatata	tagcctgggtg	acaaaagtgt	tcatagttaa	ttagttaact	1800
ttgtaatact	tctataatta	gttcacagc	aatttcaccc	acttcactgt	tataacttag	1860
aagactgttc	tctgcagctt	cagctaattc	agcatcttca	gtagcttcta	aaaaataagc	1920
atcatcaatg	ccatttatcc	agacagcatc	agcagatgca	cctgttgaca	gcctgctagg	1980
tgatggttta	tgaggattct	gggtttcatt	gctcctagtt	tcactgtgct	catctgttgt	2040
aaactcttct	tctcttttga	aaaaaaacag	gagacatact	tcagcaggta	atgggaaaca	2100
gtcagatttg	aagttttttg	ctttacatac	agggtcatga	cattttttat	accaaacttc	2160
atttttcaga	tcaaccagaa	tcctttttgt	ttaaaaaaa	aaaaaagtat	taataccaag	2220
actgggtaga	aaacaaaatc	cagctgcatg	ctgttccaag	aaatatgcct	aagacttaaa	2280
gatggagaaa	aattaaaaag	taaaaggata	aggatagata	cataccaatc	aaaacgggtg	2340
ttgccaaaaa	tcacacaaaa	tgaactgcag	ggcaaaaagt	agatactgat	gaaagttccc	2400
ccaggaagat	gtaacaat					2418

<210> 643
 <211> 1166
 <212> DNA
 <213> Homo sapiens

<400> 643						
atgttcccac	gaaagcgata	ttcccgtcca	cccagtgtaa	aacgccggcc	cgtgcccttg	60
cttattatta	agcatccatt	taggggaaag	gtttcaatgc	gccgtcccgt	gttaagatag	120
ggccccccaa	ggaaccttta	aaaaggcccc	cccctttttt	tttttttgaa	agtataaaaa	180
tcattttact	ttaatacaaa	atcacataaa	gaaaggcatg	ttggctaaat	caaatattca	240
ctaaatatca	gtgaagtcac	cactggaatc	tcaatagcac	attttcctgc	tttcttttct	300
cccttctgct	aaccattgaa	gaccagggtc	atccgtggga	gcagatgagt	aggacacgcg	360
tctgcacgct	ggaggccctg	ggggttgaca	tgggagcagg	aagtggaccc	ccccaccctg	420
cacatocctt	ctgtttttct	tgatttcagt	ctcactggcc	caggccaaat	cttcaagggt	480
gtctagttct	gcagccaggg	agaaagtgat	gccaaagaaa	cctcgtctcc	tccctcctca	540
gtctgctttg	aaggggaaat	aaatacacag	gcctagtgtg	tctgtgtggc	acagggagggt	600
ggttttgcca	ggcatcttgg	aaggttgtct	tctagaatca	gagccatagc	cttacttgtg	660
gccttggatc	taggtctgtt	tccccgatcg	aaaaaagaac	agctttttta	tgattgtcct	720
ctcctccttg	ttcctgccag	catttttggc	actagtaacc	acagcatctt	tttctcttct	780
tcctcctggg	ccttctcttg	gtggaatcag	gccactcccc	gctggccgga	gggctctgtc	840
tccgcagccc	ctccacctcc	ttcctgagggt	ggtccctctc	catcttcagc	tccctcagcg	900

ccaggctgcc	ctcattcacc	agcgctcca	gcattctccag	gacgcggacg	actttgaact	960
gcagctgcgt	caccgcgggg	tcgctgccc	gggccataag	ctcgcggccc	aacaggtagg	1020
agatgtcata	cacgtcctcg	gcggtcagct	ggaaggggct	cttgcccagc	gccccctcgg	1080
gccccacctc	gtccctctcc	tcgtcctcct	ctccctcctc	ctattcctct	tctcgcacag	1140
ggggctcctc	catggccacc	cagacc				1166

<210> 644
 <211> 1024
 <212> DNA
 <213> Homo sapiens

<400> 644						
ccccgaaatg	accaccgtct	cacccaatca	agacgtgatt	catcaagtaa	gaccgcgccc	60
tttctgggtcc	ccaggttcct	tcccgtcac	gccggagtca	cttccgaaga	gagaaccgcc	120
atgaagagag	aaggggggtgc	cgcccacctc	tgctccgaca	gcctcccggga	gtcccagcag	180
caagacggca	accacgcacc	caacttctcc	agccacggct	catgcgcgcg	tcgccagcgg	240
cgccgacatg	acaaggcgct	gcattgccgc	taggccaggt	ttcccctcat	ccccagcccc	300
ggggtcgtcg	cccccgcgct	gccatctgag	acccggtagt	accgcccattg	ctgcagcggg	360
aaagagaaca	gagagtcctg	gggacaggta	ccgtgcagag	ggcttgagaa	ggggccgggt	420
cgcgggggca	agggtatgag	gggagggctg	cagaccgccg	ctcttccagt	tcccgccatc	480
ctccgcgagc	tcaggcggtg	gcatttcggg	gcctggcaaa	tccccgcccc	gcctccgcgc	540
aggggctact	gggagttgga	gtttgcttct	ctgtagttag	gcagctgctc	ttggtctagt	600
gaccaccagc	ctggacagct	acggagaacc	cgccttaggt	agaaagaaag	tgattttttt	660
cctttgcaag	agtttgaccc	gggaccctaa	ctgcttaatg	catatttaga	tcgttttctg	720
tacgttggtca	gttctactga	tcctagtggg	ttagtaatat	aaaccttttc	tatgttggtg	780
gtgaaattat	gtaacctgtg	atgagggaat	cccttcacg	aattactttg	tagtccagcg	840
tgcacgctag	ttcatactta	aaagaacttg	cagatttgga	atgtgacgtg	ttttctcttt	900
cagtaacttc	gacgcctctc	caagaggcta	attttttttt	aaagattttg	tgggagctat	960
gtaatgagat	ggggagtttc	atctaattgac	atcctctgac	aataaaacat	gtttaaattc	1020
ccta						1024

<210> 645
 <211> 499
 <212> DNA
 <213> Homo sapiens

<400> 645						
accacgcgt	ccgaaaagag	cagagctacc	atgtcctctt	ggagcagaca	gcgacaaaa	60
agccagggg	gcattcaacc	ccatgtttct	agaactctgt	tcctgctgct	gctgttgga	120
gcctcagcct	ggggggtcac	cctgagcccc	aaagactgcc	aggtgttccg	ctcagaccat	180
ggcagctcca	tctcctgtca	accacctgcc	gaaatccccg	gctacctgcc	agccgacacc	240
gtgcacctgg	ccgtggaatt	cttcaacctg	accacctgc	cagccaacct	cctccagggc	300
gcctctaagc	tccaagaatt	gcacctctcc	agcaatgggc	tggaaagcct	ctgcgccgaa	360
ttcctgcggc	cagtgccgca	gctgagggtg	ctggatctaa	cccgaacgc	cctgaccggg	420
ctgcccccg	gcctcttcca	ggcctcagcc	accctggaca	ccctggtatt	gaaagaaaa	480
cagctggagg	tcctggagg					499

<210> 646
 <211> 709
 <212> DNA
 <213> Homo sapiens

<400> 646
 ctgacttaca gctcttataa actagtggca atttctgaac ccagccggct ccatctcagc 60
 ttctgggttc taagtccatg tgccaaaggc tgccaggaag gagacgcctt cctgagtcct 120
 ggatctttct tccttctgga aatctttgac tgtgggtagt tattttattc tgaataagag 180
 cgtccacgca tcatggacct cgcgggactg ctgaagtctc agttcctgtg ccacctgggc 240
 ttctgctacg tctttattgc ctcagggcta atcatcaaca ccattcagct cttcactctc 300
 ctctctctggc ccattaacaa gcagctcttc cggaagatca actgcagact gtcctattgc 360
 atctcaagcc agctgggtgat gctgctggag tgggtggcgg gcacggaatg caccatcttc 420
 acggaccgcg gcgcctacct caagtatggg aaggaaaatg ccacgtggt tctcaaccac 480
 aagtttgga atttgacttt ctgtgtggct ggagcctgtc cgaacgcctt gggctgttag 540
 gggtaagtca aaagtgcatt cccccctgcc tcacacattt ttttggttca gccccccac 600
 ttgtcttttt gctcctgggc attcagaact tgcagaagaa tcaacagagt ttttacttga 660
 tgaaatgggc ctaataaact gcttttttat tcttgctagg aaaaaaaaa 709

<210> 647
 <211> 1498
 <212> DNA
 <213> Homo sapiens

<400> 647
 tttcgtgcgg ggggtgggctc tgcgcgtaat ggcagcgcgg tggcctcgcg tccatctttg 60
 ccgttctctc ggacctgtca caaaggagtc gcgcgcgcgc cgcgcgcctt tccctccggt 120
 gggcccgga ggtagagaaa gtcagtggca cagcccgacc gcgctgctct gagccctggg 180
 cagcgcgaac gggaggaggat ctgaggggtg gggacgtctg tgaggaggag gaacagccgc 240
 tcgagcctgg ggcggggcga ccggaactgg gccggggtag gctctggaaa gggcccgga 300
 gagaggtggc gttggtcaga acctgagaaa cagccgagag gttttccacc gagggccgcg 360
 cttgagggat ctgaagaggt tcctagaaga ggggtgtccc tctttcgggg gtcctcacca 420
 gaagaggttc ttgggggtcg cccttctgag gaggtgcgg ctaacagggc ccagaactgc 480
 cattggatgt ccagaatccc ctgtagttga taatgttggg aataagctct gcaactttct 540
 ttggcattca gttgttaaaa acaaatagga tgcaaatcc tcaactccag gttatgaaaa 600
 cagtacttgg aaaactgaaa actacctaaa tgatcgtctt tgggtgggccc gtgttcttag 660
 cgagcagaag ccttggccag ggtctgttgt tgactctcga agagcacata gccacttcc 720
 tagggactgg aggtgcgcgt actaccatgg gtaattcctg tatctgccga gatgacagt 780
 gaacagatga cagtgttgac acccaacagc aacaggccga gaacagtga gtaccactg 840
 ctgacacaag gagccaacca cgggaccctg ttcggccacc aaggaggggc cgaggacctc 900
 atgagccaag gagaaagaaa caaaatgtgg atgggctagt gttggacaca ctggcagtaa 960
 tacggactct tgtagataat gatcaggaac ctccctattc aatgataaca ttacacgaaa 1020
 tggcagaaac agatgaagga tgggtggatg ttgtccagtc ttttaattaga gttattccac 1080
 tgggaagatcc actgggacca gctgttataa cattgttact agatgaatgt ccattgcca 1140
 ctaaagatgc actccagaaa ttgactgaaa ttctcaattt aaatggagaa gtagcttgcc 1200
 aggactcaag ccactcctgcc aaacacagga acacatctgc agtcctaggc tgcttggccg 1260
 agaaactagc aggtcctgca agtatagggt tacttagccc aggaatactg gaatacttgc 1320
 tacagtgtct gttacagtcc caccacacag tcatgtcttt tgcaactatc gcactggaaa 1380
 agtttgcaca gacaagtga aataaattga ctatttctga atccagtatt agtgaccggc 1440

ttggtcacat tggagtccctg gggctaataga tcctgattat ctgaaacgtc aagttggg 1498

<210> 648
 <211> 1013
 <212> DNA
 <213> Homo sapiens

<400> 648
 agattcggca ctaggggctt ggctaaaagt aaggggtgtcg tgctgatggc cctgtgcgca 60
 ctgacccgcg ctctgcgctc tctgaacctg gcgccccga ccgtcgcgc ccctgccccg 120
 agtctgttcc ccgcgcceca gatgatgaac aatggcctcc tccaacagcc ctctgccttg 180
 atgttgctcc cctgcgcgcc agttcttact tctgtggccc ttaatgcca ctttgtgtcc 240
 tggaagagtc gtaccaagta caccattaca ccagtgaaga tgaggagtc tgggggcccga 300
 gaccacacag gccgaatccg ggtgcatggg attggcgggg gccacaagca acgttatcga 360
 atgattgact ttctgcgttt ccggcctgag gagaccaagt caggaccctt tgaggagaag 420
 gttatccaag tccgctatga tcctgtagg tcagcagaca tagctctggg tgctgggggc 480
 agccggaaac gctggatcat cgccacagaa aacatgcagg ctggagatac aatcttgaa 540
 tctaaccaca taggcgaat ggcatgtgct gctcgggaag gggatgcgca tcctcttggg 600
 gctctgcctg tggggaccct catcaacaac gtggaaagt agccaggccg ggggtcccaa 660
 tatatccgag ctgcagggac gtgtggtgtg ctactgcgga aggtgaatgg cacagccatt 720
 atccagctgc cctctaagag gcagatgcag gtgctggaaa cgtgcgtagc aacagtaggc 780
 cgagtatcca acgttgatca taacaaacgg gtcatgtgga aggcaggtcg caaccgctgg 840
 ctgggcaaga ggcctaacag tgggcgggtg caccgcaagg ggggctgggc tggccgaaa 900
 attcgccac taccctccat gaagagttac gtgaagctgc cttctgcttc tgcccaaagc 960
 tgatatccct gtactctaataaaaatgcccc cccccccgt tttaaaaaa aaa 1013

<210> 649
 <211> 1504
 <212> DNA
 <213> Homo sapiens

<400> 649
 ttccgcacga agcgtgtctc ggggtggacg atgttatattg aaaagttaca ggacagattt 60
 tctgtgttaa tggacatgag ccatacattg agagggtgc tggctactga aagaaatata 120
 aaattttaaa atttctgaaa tcatgcagtt aacatctgca cacttcacta tattttaagt 180
 ttttgttaat ataaaagaat aagaaaacag aaaagtatta ctgttaaaca ataatagaga 240
 aatgtatact ttatttataa atttctccct ctagctgac atacagttga ccagttcagg 300
 gtgcccgtg ctggttggat gccaggcgga atgtcagggt gttctctggg gtctgtgtg 360
 gctgtgggat ccacggttac tgggcggagc cctgtggtgg ctgtggtgcc atggaggggc 420
 tgcatcttc tgtggagctg gaccctgagc tgactccagg gaagctggat gaggagatgg 480
 tggggctgcc acccatgac gcgagtcctc aagtcacttt ccacagcctc gatgggaaga 540
 cagtgggtgtg tccacacttc atgggcttac tgctgggtct cttactttta ttgactttgt 600
 ctgttaggaa ccaactctgt gtaagagggt aaaggcagct tgcagaaaca ctgcattcac 660
 aggtgaaggaa gaaatcccag ctcatgtgga agaaaacaga ttgtagagac tgaggcatct 720
 ttaaaagatg tcagggtaca gaaaaagtct ttcaacaccc ccggctttgt agatgcctac 780
 aagaaggatg atagcaccac cgagatgctg atggagaaat ttaccacctt cgttcaagaa 840
 ctgaaagaag agacatcctc cagactctcc aggaacaag aggagctggg agagatgcta 900
 acaacgctgg aggccctggg agaggccatg agagccaccc cgtcacaagg agcttttcca 960

cacctgccat	gcagctgaga	gccaaagccct	gctgctctct	ccccacagag	gggctgggt	1020
cttagagcag	cactgttctt	ttccccctcca	cccaggcctc	ccgagctgcc	aggctctgtg	1080
ctccccact	gactccatct	gaggggtcct	tgaggccagt	ggatctggag	taccccgccc	1140
ctggcctgga	gttccctccc	cttctcacgc	tgacactgca	gccagctcct	caatgggcgg	1200
tgctccaaa	tctaaagaat	atggaggtcc	tggagcacac	caagaaatga	gggacttttt	1260
ctttgcagaa	agtttgaatt	ctgtcttaat	gagacagaat	gccatacttg	agcacctcat	1320
cttttgctca	aattgaaatg	tcacgcgaact	gtatttctca	agtcaaagg	ctgtaaatat	1380
gatttatgta	ttaatctcct	aagtgaacaa	tttatatttt	atcctctaca	taattatcgt	1440
attatgcttt	aaatatatat	ttagtttatc	aataaagaca	ttcagtactc	aatagcaaaa	1500
aaaa						1504

<210> 650
 <211> 2231
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1) ... (2231)
 <223> n = a,t,c or g

<400> 650						
gcggcgcag	acaaaggcg	gctcgcgcc	gggcgcacc	gctctcggc	tctgcctcg	60
gaaggagact	tggtctgaaa	gatgccacat	tcctgcagcc	tctcttggtg	cagtggata	120
cagtcttggg	cgaggtggcg	tggtgagct	ggtgaaagag	gatgctgccc	acatccaaag	180
gctccagagg	atcctgggcc	tgggcagctg	agctcccctg	catttgggaa	cctcaggcgt	240
aacttgggtg	tagagctcat	gaaagggtct	tgtgtttctc	cagctttttt	tcaccagtgc	300
cttaccagac	tgggctcagg	ttttgggaat	tctaagggtg	agctgggtag	gaaacaggga	360
gagggtagga	aagaagcccc	tggggatgcc	ttcccagaat	tcatttgatg	gggatccctg	420
gcataactgc	ttgggaacac	agaaagaggc	tgtgacacag	ctgagctttt	ggagcatttt	480
aaggagctcc	agctccagca	aaacaaactc	ttgcatttca	gcccagaaag	agcctcttgt	540
aacaaagtat	tccaaagggg	agagtttctg	catcttttac	tttgcagtcc	actatggtag	600
aaaacttgac	attccataga	taatgatact	gggttttctt	tccaagatgc	cagctttaaa	660
agaaatatga	gccatttctaa	gctttaagaa	gggttcagga	aacacaggaa	ttagtagaca	720
gccctcccaa	tgagggttaa	gacgacagcc	tgcgccccc	actagcacag	ctcagcgagc	780
atgaccatat	gccatttctcg	tctccagaga	gctggtggca	gtgacctcac	taggagaaaa	840
cacatccctc	agccgtggga	cttgacagaa	tgaggtgccg	gagggaggcc	gctagccgag	900
acttggcctt	tcctgactgc	ccctgtgtta	cctgggcagc	tccagatcac	tgagcccaca	960
atggctgaga	agggtgactg	catcgccagt	gtctatgggt	atgacctogg	tgggcgcttt	1020
gttgacttcc	aacccctggg	cttcggtgtc	aatggtttgg	tgctgtcggc	cgtggacagc	1080
cgggcctgcc	ggaaggctcg	tgtgaagaag	attgccctga	gcgatgcccg	cagcatgaag	1140
cacgcgctcc	gagagatcaa	gatcattcgg	cgccctggacc	acgacaacat	cgtcaaagtg	1200
tacgaggtgc	tcggtcccaa	gggcactgac	ctgcagggtg	agctgttcaa	gttcagcgtg	1260
gcgtacatcg	tccaggagta	catggagacc	gacctggcac	gcctgctgga	gcagggcacg	1320
ctggcagaag	agcatgccaa	gctgttcatg	taccagctgc	tccgcgggct	caagtacatc	1380
cactccgcc	acgtgctgca	cagggacctg	aagcccgcga	acatcttcat	cagcacagag	1440
gacctcgtgc	tcaagattgg	ggatttcggg	ttggcaagga	tcgttgatca	gcattactcc	1500
caacaagggt	tatctgtcag	aagggttgg	aacaaagtgg	taccgttccc	cacgactgct	1560
cctttccccc	aataactaca	ccaaagccat	cgacatgtgg	gccgcgggct	gcatcctggc	1620
tgagatgctt	acggggagaa	tgctctttgc	tggggcccat	gagctggagc	agatgcaact	1680
catcctggag	accatccctg	taatccggga	ggaagacaag	gacgagctgc	tcagggtgat	1740
gccttctctt	gtcagcagca	cctgggaggt	gaagaggcct	ctgcgcaagc	tgctccctga	1800
agtgaacagt	gaagccatcg	actttctgga	gaagatcctg	acctttaacc	ccatggatcg	1860
cctaacagct	gagatggggc	tgcaacaccc	ctacatgagc	ccatactcgt	gccctgagga	1920
cgagccacc	tcacaacacc	ccttccgcgt	tgaggatgag	atcgacgaca	tcgtgctgat	1980
ggcgcctaac	cagagccagc	tgtccaactg	ggacacgtgc	agttccagg	accctgtgag	2040

cctgtcgtcg	gacctggagt	ggcggcctga	cgggtgccag	gacgccagcg	aggtacagcg	2100
cgacccgcgc	gcgggttcgg	cgccactggc	tgagaacgtg	caggtggacc	cgcgcaagga	2160
ctcgcacagc	agctccgcct	cgtgccaagc	tggtcgtaat	ggtgtcagtc	ggtatcagtn	2220
tnntctcccc	t					2231

<210> 651
 <211> 2458
 <212> DNA
 <213> Homo sapiens

<400> 651						
atgaggacac	ttgggacttg	cctggcgact	ttggccggac	ttttgctaac	tgccggcgggc	60
gagacgttct	caggtggctg	cctctttgat	gagccgtata	gcacatgtgg	atatagtcaa	120
tctgaagggtg	atgacttcaa	ttgggagcaa	gtgaacacct	tgactaaacc	gacttctgat	180
ccatggatgc	catcagggtc	tttcatgctg	gtgaatgcct	ctgggagacc	tgaggggcag	240
agagcccacc	tgctcttacc	ccaacttaaa	gaaaatgaca	cccactgcat	cgattttcac	300
tattttgtgt	ccagcaagag	taattctcct	cgggggttac	tcaatgtcta	cgtgaaggtc	360
aataacgggc	cactggggaa	tcctatctgg	aatatacttg	gagacccaac	acgtacatgg	420
aacagggcag	aactggccat	tagtactttc	tggcctaact	tttatcaggt	gatttttgaa	480
gtgataactt	ctggacatca	aggctatctc	gctatcgatg	aggtgaagg	gttaggacat	540
ccatgtacca	ggactcctca	cttcctgcgg	attcagaatg	tgggaagtta	tgctggccag	600
tttgctacct	tcagtgagc	tgccatcggc	aggaccgtgg	caggagacag	gctctgggta	660
cagggcattg	atgtgcgaga	tgctcctctg	aaggaaatca	aggtgaccag	ctcccagcgc	720
ttcattgtct	catttaatgt	tgtgaatacc	accaaaccag	atgctggaaa	gtaccgctgc	780
atgattccgc	ctgaaggag	gtgttggaa	atcaaatctat	gcagagttag	gtagttaaag	840
aaccaccctg	tcctattggc	ccacctcagc	tcgcctctgt	aggagccacc	tacctgtgga	900
tacagctcaa	cgccaactcc	atcaatgggg	atgggcccac	tgtggcccga	gaggtggagt	960
actgcacggc	cagtgggagc	tggaatgacc	ggcagccagt	cgattccacg	agctataaaa	1020
ttggacacct	tgacccagat	acagaatatg	agattagtgt	gctcctgacc	aggccagggg	1080
aggggtggc	tggtctctct	ggtccagctc	tcaggacaag	aacaaagtgt	gctgatccca	1140
tgcgaggccc	aagaaaacta	gaagtagtgg	aggtcaaata	tcggcaaata	actatccgtc	1200
gggagccatt	ttgatataat	gtaactcgtt	gccacagtta	taatctcact	gtccactact	1260
gtttaccaagt	tggaaggaca	gaacaagtgc	gagaagaagt	aagctgggat	acagaaaatt	1320
cacaccctca	acacacgata	actaacctgt	caccatacac	caatgtcagt	gtgaaactga	1380
tcctcatgaa	cccagagggc	cggaaggaaa	gccaagaact	catagtgcag	acagatgaag	1440
acctcccagg	tgctgttccc	actgaatcca	tacaagggaag	tacctttgaa	gagaagatat	1500
ttcttcagtg	gagagaacca	actcaaacat	atggtgtaat	cactttatat	gagatcacct	1560
acaaagcagt	cagttccctt	gacccagaaa	tagatttata	caatcagagt	ggaagagttt	1620
caaagctggg	aaatgaaacc	cattttctgt	tttttggact	gtatccgggg	accacatact	1680
cctttaccat	ccgagctagc	acagctaagg	gttttgggcc	tccagcaaca	aaccagttca	1740
ccacaaaaat	atcagcacc	tctatgccag	cttatgaaat	tgagacacct	ttgaatcaaa	1800
ctgacaatac	cgtgacagtc	atgctgaaac	ctgccacag	cagaggagca	cctgtcagtg	1860
tctatcaaat	agttgttgag	gaagaacgtc	ctcgaagaac	taaaaagacg	acagaaatct	1920
taaagtgcta	cccagtgcca	attcacttcc	agaatgcttc	tctgtgtaac	tcacagtact	1980
actttgtctg	agaatttctt	gcagacagcc	tccaagctgc	gcagcctttt	acaattgggtg	2040
ataataagac	atataatgga	tactggaaca	ctccccttct	cccctataaa	agctacagaa	2100
ttattttcca	agctgctagt	agagccaatg	gggaaccaca	aatagactgt	gtccaagtgg	2160
ccacaaaagg	agctgcccact	ccgaaccag	tcccagaacc	cgagaaacag	acagaccata	2220
cagttaaaat	tgctggagtc	atcgcgggca	tcttgcgtgt	cgtgattata	tttcttggag	2280
ttgtgttggt	aatgaagaaa	aggctttaca	agcatggtgc	cagcatctgt	tcagcttctg	2340
gtgaggccct	aggaagcttc	caatcatgga	ggaaggcaaa	gcacaagcag	gcgtgtccca	2400
tggcaagagc	aggagcacga	gagcgagcgg	gaggtgtgtc	caaactttga	aacaacca	2458

<210> 652
 <211> 457
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(457)
 <223> n = a,t,c or g

<400> 652
 aatagactgc gtaacctacg ccanngcgng gaattcgtea gcttctgcag ctctcccggg 60
 ctagcatggc agcgcggaag agttggacgg ccctgcggct ctgcgccaca gttgttgtag 120
 ttgatattgg cgtctgtaaa ggattttgtac aagatttaga tgaatcgttt aaagaaaatc 180
 gaaatgatga catttggtt gtacattttt atgcgccatg gtgtggccat tgtaaaaagc 240
 tggaaccaat ttggaatgaa gctggtcttg agatgaaaag cattggttct ccagttaagg 300
 ctggaaagat ggatgctact tcctattcta gcattgcttc agagtttgga gttcgagggt 360
 atccaacaat taagctggct ctaattcggc cacttccaag tcaacaaatg tttgaacata 420
 tgcacaagag acaccgcgta ttttctggtt atgtaag 457

<210> 653
 <211> 1014
 <212> DNA
 <213> Homo sapiens

<400> 653
 tttttccttt ccttttccct ttctcctttc cctctccata gtgaagctaa tgtactttgc 60
 acagtgttag caattatcac ccattcatca ggtattaatt catttcgata ccaagggcat 120
 aggcttgatg tacaataagg agttaaggac tgtgagttct ctgataagggt ttggttatag 180
 tcattttctca cttctcacc cctccaggac tacttccagc aaccctactg cctgccatgt 240
 ccgaccccat cacgctgaac gtcgggggga agctctatac aacctcactg gcgaccctga 300
 ccagcttccc tgactccatg ctaggcgcca tgttcagcgg gaagatgcc accaagaggg 360
 acagccaggg caactgcttc attgaccgtg acggcaaagt gttccgctat atcctcaact 420
 tcttgccgac ctcccacctt gacctgcctg aggaactcca ggagatgggg ctgctccgca 480
 gggaggccga cttctaccag gtgcagcccc tgattgaggc cctgcaggag aaggaaagtgg 540
 agctctccaa ggccgagaag aatgccatgc tcaacatcac actgaaccag cgtgtgcaga 600
 cggtccactt cactgtgcgc gaggcacccc agatctacag cctctcctct tccagcatgg 660
 aggtcttcaa cgccaacatc ttcagcacct cctgcctctt cctcaagctc cttggctcta 720
 agctcttcta ctgctccaat ggcaatctct cctccatcac cagccacttg caggacccca 780
 accacctgac tctggactgg gtggccaatg tggagggcct gccagaggag gagtacacca 840
 agcagaacct caagaggctc tgggtgggtgc ccgccaaca gcagatcaac agcttccagg 900
 tcttcgtgga agagggtactg aaaatcgctc tgagcgatgg cttctgcac gattcttctc 960
 acccacatgc tctggatttt atgaacaata agattattcg attaatcagg taca 1014

<210> 654
 <211> 1725
 <212> DNA

<213> Homo sapiens

<400> 654

attcgtgcgc	cgataatttg	gtggcggcgt	cgggaggggtg	ctgggtttgtt	ctcgggtgaac	60
ggcgcgcggg	gtctctcctg	agtgcgagct	acgggacctt	cgccatgccg	gggatggtag	120
tcttcggcgg	gcgctggggc	atcgccagcg	acgacttggg	cttcccagg	ttcttcgagc	180
tggctcgtgcg	agtgcctgtg	tggattggca	ttctgacgtt	gtatctcatg	cacagaggaa	240
agctggactg	tgtcgggtga	gccttgcctc	gcagttactt	gacgtcctc	atgattctcc	300
tggcagttgt	catatgtact	gtgtcagcca	tcagtgtgtg	cagcatgaga	ggaacgattt	360
gtaaccctgg	accgcggaag	tctatgtcta	agctgcttta	catccgcctg	gcgctgtttt	420
ttccagagat	ggctctgggc	tctctggggg	ctgcctgggt	ggcagatggg	gttcagtgcg	480
acaggacagt	tgtaaacggc	atcatcgcaa	cgtcgtggg	cagttggatc	atcatcgtcg	540
ccacagtggg	ttccattatc	attgtctttg	accctcttgg	ggggaaaatg	gtcccatatt	600
cctctgcggg	ccccagccac	ctggatagtc	atgattcaag	ccagttactt	aatggcctca	660
agacagcagc	tacaagcgtg	tgggaaacca	gaatcaagct	cttgtgctgt	tgcattggga	720
aagacgacca	tactcgggtt	gctttttcga	gtacggcaga	gcttttctca	acctaactttt	780
cagacacaga	tctggtgccc	agcgacattg	cggcgggcct	cgccctgctt	catcagcaac	840
aggacaatat	caggaacaac	caagagcctg	cccagggtgg	ctgccatgcc	ccaggagagct	900
cccaggaagc	tgatctggat	gcagaattaa	aaaactgcc	tcattacatg	cagtttgacg	960
cagcggccta	tgggtggccc	ctctacatct	acagaaaccc	cctcacgggg	ctgtgcagga	1020
ttggtggtga	ctgctgcaga	agcaagaacc	cacagactat	gacttggtcg	gaggcgatca	1080
gcttcaactg	tacttcggc	tccatcctg	cacaccaca	gggctgcagt	acagggactt	1140
catccacgtc	agcttccatg	gacaagggtt	acggagctgc	cgtttttagt	ggctctggat	1200
cacaggaaag	agtctgttgt	ggtcgtgtg	agggggacca	tgtctctgca	ggatgtcctt	1260
acggacctgt	cagcggagag	tgaggtgcta	gacgtggagt	gtgaggtgca	ggaccgcctg	1320
gcacacaagg	gtattttctc	agctgccaga	tacgtttacc	aacgactcat	caacgacggg	1380
atthttgagcc	aagccttcag	cattgtcctt	gagtaccggc	tggatcatag	gggccacagc	1440
ctcgggggag	ggcgggccgc	cctgctggcc	accatgggtc	gagccgccta	cccgcaggtc	1500
aggtgctacg	ccttctcccc	accccggggg	ctgtggagca	aagctctgca	ggaatatctt	1560
cagagcttca	tcgtgtcact	cgtcctgggg	aaggatgtga	ttcccaggct	cagtgtgacc	1620
aacttggaag	atcttgaaga	gaagaatctt	gcgagtggtc	gcgcactgca	ataaacccaa	1680
gtacaagatc	ttgctgcacg	gtttgtggta	cgaactgttt	ggagg		1725

<210> 655

<211> 748

<212> DNA

<213> Homo sapiens

<400> 655

tttcgtgcgc	cgactgcagc	agcgaagggg	aatggggggc	gcggtggcag	ggccggggcc	60
ggggacgcc	gcggcacgcg	gaagaagaag	ggcccggggc	ccctggccac	ggcgtacctg	120
gtcatctaca	atgtggtgat	gacagccggg	tggctgggta	tagcggttgg	tctggtccga	180
gcatacctgg	ctaagggtag	ctaccatagc	ctttattatt	caattgaaaa	gcctttgaaa	240
ttctttcaaa	ctggagcctt	attggagatt	ttacattgtg	ctataggaat	tgttccatct	300
tctgttgttc	tgacttcttt	ccagggtgat	tcaagagttt	ttctaatatg	ggcagtaaca	360
catagcgtca	aagagggtaca	gagtgaagac	agtgtccttg	tttggtattg	catggacgat	420
cacggaaatc	atccgttact	ccttttatac	attcagtcta	ttaaaccatc	tgccctacct	480
catcaaaagg	gccagggtaca	cacttttcat	tgtgtgtgac	ccaatgggag	tgtcaggaga	540
actgctcaca	atatatgcag	ctctgccctt	tgtcagacaa	gctggcctat	attccatcag	600
tttacccaac	tctacaaaaa	aaattttttt	aattagccag	gtatgggtggc	atatgcttgc	660
agtctcagct	gacgctaagg	cggcagaaat	gcctgctgta	cttaagcctg	ggccatagag	720
aaggaccttg	tctctaaata	aataaata				748

<210> 656
 <211> 977
 <212> DNA
 <213> Homo sapiens

<400> 656
 cgcccgctc gacagacaga cgggagcagt gcttttcccta gagtagagta tgctctataa 60
 atgtctactg aatgttgact ggtgttgat gtcttgtctc ctgagatgag 120
 tgcagtgtaa ttcattgggaa aaatcctgtg tcaacagcat tgcctctgaa tgtccctcac 180
 atgccaacac cagctgtatc agctcctcag ccagctcctc tctagagaca ccagtcagat 240
 tataccagaa tatgttctgc tcagcggaga actgcagtga ggagacacac attacagcct 300
 tcaactgtcca cgtgtctgct gaagaacact ttcattttgt aagccagtgc tgcgaaggaa 360
 aggaatgcag caacaccage gatgccctgg accctccctc gaagaacgtg tccagcaacg 420
 cagagtgtcc tgcttgttat gaatctaata gaacttcctg tcgtgggaag ccctggaaat 480
 gctatgaaga agaacagtgt gtctttctag ttgcagaact taagaatgac attgagtcta 540
 agagtctcgt gctgaaaggc tgttccaacg tcagtaacgc cacctgtcag ttcctgtctg 600
 gtgaaaacaa gactcttgga ggagtcattt ttcgaaagtt tgagtgtgca aatgtaaaaca 660
 gcttaacccc cactgtctgca ccaaccaact cccacaacgt gggctccaaa gcttccctct 720
 accctctggc ccttgccage ctccttcttc ggggactgct gccctgaggt cctggggctg 780
 cactttgccc agcaccocat ttctgtctct ctgaggtcca gtagcactcc ctgcggtgct 840
 gacaccctct ttcctgtctc tgcccgttt aactgcccag taagtgggag tcacaggtct 900
 ccaggcaatg ccgacagctg ccttgttctt cattattaaa gcactggttc attcactgcc 960
 caaaaaaaaa aacattt

<210> 657
 <211> 746
 <212> DNA
 <213> Homo sapiens

<400> 657
 ttctgtggcg gaacggagga ggaggcgggt gtgtcccggc tgcggggtag gagtccgcgg 60
 cagcctccgg gtaagccaag cgccgcgcag tgctgagttc ccgcacgcgg cagagccatg 120
 gagatcggca ccgagatcag ccgcaagatc cggagtgtcca ttaaggggaa attacaagaa 180
 ttaggagctt atgttgatga agaacttcct gattacatta tggatgatgg ggccaacaag 240
 aaaagtcagg accaaatgac agaggatctg tcctgttttc tagggaacaa cacaattcga 300
 ttcaccgtat ggcttcatgg tgtattagat aaacttcgct ctgttacaac tgaacctct 360
 agtctgaagt cttctgatac caacatcttt gatagtaacg tgcttcaaaa caagagcaat 420
 ttcatgtcgg gagatgagag gaggcattga gctgcagtgc caccacttgg ccattcctag 480
 cgcgagacct gaaaaaagag attccagagt ttctacaagt tcgcaggagt caaaaaccac 540
 aaatgtcaga cagacttacg atgatggagc tgcaaccaga ctaatgtcaa cagtgaacct 600
 ttgaggggag cagcaccctc tgaagatgtg attgatatta agccagaacc agatgatctc 660
 attgacgaag acctcaactt tgtgcaggag aaacccttat ctcaaaaaa acctacagt 720
 acacttacat atggttcttc tcgccc

<210> 658
 <211> 559
 <212> DNA
 <213> Homo sapiens

```

<400> 658
cctccctgct gtgggctggc ctgggaggaa gggggtgggg tgcacttaca tttgcaggtc 60
tttccagccc ctggggcagc ctgattaacc agcttctcca gggccaagct gttgggggtg 120
aggtgcagcc cgaagcagcc agaccagccc ctgagcctcc cgggtgctgg cagctgtcat 180
ggggctaccc tgggggcagc ctcacctagg gctgcagatg ctctcctcgg cgttgaactg 240
tctccggccc agcctgagcc tggagctggt gccctacaca ccacagataa cagcttggga 300
cctggaaggg aaggtcacag ccaccacctt ctccctggag cagccgcgct gtgtcttcga 360
tgggcttgcc agcgccagcg ataccgtctg gctcgtgggt gccttcagca atgcctccag 420
gggcttccag aaccgggaga cactggctga cattccggcc tccccacagc tgctgaccga 480
tggccactac atgacgctgc ccctgtctcc ggaccagctg ccctgtggcg accccatggc 540
gggcagcggg agcgcccca

```

<210> 659
 <211> 538
 <212> DNA
 <213> Homo sapiens

```

<400> 659
ctgggaagga cttgggggac tagaggcgag gggagagagc ttgtggaagg tgcggcagag 60
aagggcccag gagaaaggag gaagggaagg agctggaggg gcgggagAAC aggagacaga 120
acaggacaga gacagctgcc cgggaggatg ggagaacaga aagagggagg aaacgccgag 180
cactgacctg ggggagggga gtaaagagaa gtgaaggggg attggaaggg aactggagaa 240
tgagagaagc aacaggcggg gtgcgtgtag gagggcggga gagccaatga caagacagaa 300
aaggcagaga aagcaagca agaccagact cctcatccgg taacactgtg tcaggtcatt 360
gccctccac cccgccccca acccataaac tgaaaacaag taggaacctg gataaaatag 420
tcttaacaat tttttttttg agacggagtc ttgctgtgtt gccagggctg gagtgcagt 480
gcgcgatctc ggctcactgc aggtccgcgc tccegggttt aagcggttct cctgccta 538

```

<210> 660
 <211> 735
 <212> DNA
 <213> Homo sapiens

```

<400> 660
acgatttcgt ccggccccgg cgcgccagcc cctggccaag cctctgctgt cattttttct 60
ccctctcttc agtctgcagc tgcgggacgg gccgggctcc tcagtctctg ctgtgttgtg 120
accccacgag gcgctcagca cccagggaag gcgctgtgtt ccccgatgct ggctcctccc 180
tgagccccga cggctctcga gggtctgagc ctgtggcctg cacagggaac ttctctctccg 240

```

actgcattta	tgcctctgtg	gatgtgaagg	ctattttctag	aaatctcttc	ctttgcagaa	300
acaccgaaa	ccctcctgcc	aggaagacca	gggcctggga	agagggtcgc	tctccggcca	360
ttctcccctc	acccctctca	ccttcctcac	atcctgtgcc	ctgggggacc	agcagctgct	420
tccaccacaga	acaagcggga	gcctgtgtca	ggaaagcatg	tcagagcaga	gctgccagat	480
gtccgaactg	cggctcctcc	tcctgggaaa	atgccgctcg	ggaaaaagtg	ccacaggaaa	540
tgccattctg	ggcaaacatg	tgttcaagtc	caagttcagt	gatcagacag	tgatcaaaat	600
gtgccagaga	gagagttggg	tcctgagaga	aaggaaggtt	gtggtaattg	acacccctga	660
ccttttctcc	tcaatagctt	gtgctgaaga	caagcaacgc	aacatccaac	acttgttgga	720
gctctctgct	cccag					735

<210> 661
 <211> 978
 <212> DNA
 <213> Homo sapiens

<400> 661						
tttcgtggag	acgactgtga	gcgtgcaaag	cgagagtlcc	tctgatgccc	tgagctggtc	60
caggctgccc	agggccctgg	cctccgtagg	ccctgaggag	gcccgaagtg	gggcccccg	120
gggcgggggg	cgttggcagc	tctccgacag	agtggaggga	gggtcccca	cgctgggctt	180
gcttgggggc	agcccctcag	cacagccggg	gaccgggaat	gtggaggcgg	gaattccttc	240
tggcagaatg	ctggagcctt	tgccctgttg	ggacgctgcg	aaagatctga	aagaacctca	300
gtgccctcct	ggggacaggg	tgggtgtgca	gcctgggaac	tccagggttt	ggcagggcac	360
catggagaaa	gccggttttg	cttggaacgcg	tggcacaggg	gtgcaatcag	aggggacttg	420
ggaaagccag	cggcaggaca	gtgatgccct	cccaagtccg	gagctgctac	cccaagatca	480
ggacaagcct	ttcctgagga	aggcctgcag	ccccagcaac	atacctgctg	tcatacttac	540
agacatgggc	accagggagg	atggggcctt	ggaggagacg	caggggaagcc	ctcggggcaa	600
cctgcccctg	aggaaactgt	cctcttcctc	ggcctcctcc	acgggcttct	cctcatccta	660
cgaagactca	gaggaggaca	tctccagtga	ccctgagcgc	accctggacc	ccaactcagc	720
cttccctgcat	accctggacc	agcagaaacc	tagagtgggtg	gagtctcgct	ctgtcaccca	780
ggctggagtg	cagtggcatg	atatcggctc	actgcaacct	ctgcctcccg	gattcaagca	840
attctcccgc	ctcagccttc	cgaatagctg	ggactacagg	cgcatgccac	catgcccgga	900
taatttttgg	attttttagta	gagaggggat	ttcaccatgt	tggccaggat	ggcctctatc	960
tcttgatctt	gtgatacg					978

<210> 662
 <211> 1118
 <212> DNA
 <213> Homo sapiens

<400> 662						
catgaactcc	cggccttaag	tgaccacact	gcctcggcct	cccaaagtgc	tgggactata	60
ggtgtggggc	actgcgcccg	gccagtgtat	tttaaaatta	taaagccgat	atattacaaa	120
gtaaaatgca	ggggaaaaaa	agtcacaaga	agtataaaga	ttggatgctt	cttgtgcttc	180
tttttgtaaa	atacagatga	tcctcaagaa	gtaacttgag	cagattttct	actggctttc	240
aaattgataa	ccctacaccc	cctataaatt	tttacattcc	ttacacagagc	taaccatagg	300
aacttccaaa	taattttctca	gtggaaatga	gtcttcaaaa	tcacacatgg	ctcataagag	360
ttttgctttt	ttaatgcctt	ctcaaaggac	ccagactgct	agattttcat	aataactact	420
ttaaccagat	agacttacta	tagggtggtg	gttccccact	aaaagatact	tttctcttgc	480

ttagtagtca	ccttcctgtg	ttctagagct	tccctatgct	tttaaaatat	gcattattac	540
aacagttctc	ctaaaaacaa	aacccccata	agagctgctg	cactcgggga	gccctgaatg	600
aattttaaag	cagcgccctga	gtcctgcatt	ctttcttcat	tgctcttttt	gcttaatttg	660
cctgtgggtg	accatcaacc	ttacaatgga	gacagagaga	aagtactccc	cctaacctat	720
ttaagaaaca	tttgcaatat	actgtttttt	ttttttacaa	gtctttaatt	aaaaaactca	780
acaaaaatat	ataattgagc	attttacata	atgcatacat	tcttaatatc	tgtaggtaag	840
ataaacaaca	gaaggcaaaa	gcagatatgc	tgtattgctt	ctttggcaac	tcaccaatat	900
catcccctgc	agaaacagag	tttttttttt	ttttttttta	aatccatggt	cttaaaataa	960
ttgtccctta	gtataaacaa	aataatttagc	aataatacag	tagacggatt	cttcaaattc	1020
acaacaattt	ataatacttt	ataccacaag	ggtaaactag	taagctgctt	tctaaaatta	1080
aggcagcagc	agtgttttaga	gggggagtaa	aaaaaaaa			1118

<210> 663
 <211> 556
 <212> DNA
 <213> Homo sapiens

<400> 663						
gaaatgccta	ttttcatttc	tgatcttact	tacttgtgtt	ttttctcttt	ttaattattc	60
ttactagaag	tttatcaatt	ttattactct	ttccaaagaa	caagcttttg	gctttgctaa	120
ttttctctat	tatttacttg	ttttaaaaaa	tgtattgggt	tctgctctta	tctttattat	180
gtttttcttc	tacttagtat	taatttagtt	tgttcttttc	ctagcctctt	aaggtagaaa	240
cttagataat	tgattttaag	ccttccttta	ctatatgggc	acttgaaaag	ctatacattt	300
ccctctgaac	actaccttca	tttgctacaa	acatttgcta	cattcaacaa	atatttgaat	360
gtgtgtgttt	taattttcat	tcatcacaaa	cccgtggtcc	cagctattca	ggggactaat	420
gtgggaggat	cacttgagcc	caggagggtg	aggctgcagc	aagccatgat	tgtgccacta	480
cattttggcc	tgggcaacag	agtgagaccc	tgtctcaaaa	aacaacaaca	acaacaacaa	540
caacaacaaa	aaaaaa					556

<210> 664
 <211> 373
 <212> DNA
 <213> Homo sapiens

<400> 664						
agaatggaga	ccaaacctgt	gataacctgt	ctcaaaaccc	tcctcatcat	ctactccttc	60
gtcttctgga	tcactggggg	gatcctgctg	gctgccggag	tctggggcaa	acttactctg	120
ggctccatata	tctcccttat	tgccgagaac	tccacatatg	ctccctatgt	gctcatcgta	180
actggcacca	ctatcggtgc	ctatcctcta	gtttgattct	tcttctccta	ttcttctggg	240
ttctcttaca	ttctagccgt	ccgcctcatt	gctggaattg	ctctcgtcta	caactacatc	300
cctcgatctt	catcgcggtc	gttagtccgt	ctcgtcgtct	tgcttcggtt	cctcctctct	360
cgtcacctt	ccc					373

<210> 665

<211> 411
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(411)
 <223> n = a,t,c or g

<400> 665
 agaacgcaga acatccaggc atggatagac atgatctgtg tcagaaggcc aaactggccg 60
 agcacgctga gcgagatgat gacatggcag cctgcatgaa gactgtaact gatcaaggag 120
 ctgaattatc caatgaggag aggaatcttc tctcagatgc tcataccaat gctgtatgag 180
 cccgtaggtc atcttggatg ggcgcatgac gtatcgaaca aaagaccgaa ggtgctgaca 240
 cacagcagca gatggctcca gactgcagag agatttttgc gacggagcta agagatatct 300
 gcgatgatgt actgtctctt ttggaaaagc tcttgatccc caatgcttca catgcataga 360
 gcttagtcta ctatttgcac atgatcggag attactaccg ttactggctt n 411

<210> 666
 <211> 333
 <212> DNA
 <213> Homo sapiens

<400> 666
 tggcgcgcggt ccgctgggga agatgccgag ggcgcagttg gcggaccgct ggcagatgat 60
 ggctgtggag agcccgctccg actgcgctga caatggacag caaattatgg atgaacctat 120
 gggagaggac gagattagcc cacaactga ataagtcagt atcaaagaag ttgctgtcac 180
 acattgtgta aaggaaggac atgataaggc agatccttcc cagattgaac ttttaagagt 240
 cttacggcag ggtacattgg gaaagggtgta cttaggtaag aaagtctcag gctctgatgc 300
 taagcagctg tatgccatga aggtattgac gag 333

<210> 667
 <211> 1991
 <212> DNA
 <213> Homo sapiens

<400> 667
 agacgctgca ggaattcggc acgaggcgca tttcggcaag ttggagtgtc tagtgcagtt 60
 ggtgagagcg ggagctctca ctcttcgtct ccaccacacg gtacgcgcag acgccagcgc 120
 cacattgcag cctttggggg acatcctcag tgccctgtct ggctgattca agcaggagcc 180
 aacattaaca aaccggattg tgagggtgaa actcccatte acaaggcagc togtctctggg 240
 agcctagaat gcatcagtgc ccttgtggcg aatggggctc acgtcgataa cccaagaaa 300
 ggcacacagg ttctggagtg gttgtttgag tgacacagca caaggccttg atttcatcat 360
 gcttttgctg tggatgtagt gtagcttgct gaacagggtat ggaagctgtc tttgctgtta 420

agtactttctc	ccgtttgttt	atcaacctgc	agctaacagg	atgtctgctt	ttttacaggt	480
ttatttcaca	gagcagtgt	cattcttgct	ttccagggga	acttcaacat	ggagttactt	540
ttgatccctc	agttttaatt	cagtgtctaa	aggttttacaa	gttcaactta	ctctatttta	600
ttcagctctt	tcactttact	tgccatcact	tcctacttga	atctgagttt	tagctactgt	660
agaggtctca	gacctttcct	ttttagtact	attagccagg	taaaactttg	gttcttggtg	720
gtggtagggg	tgagttttta	ggacagtatt	caaagccttt	ttaaaggaac	caactactca	780
aatgctctac	aatgccaaaa	atacaatact	cctgcagggt	ttcccaagca	aggccaaaaac	840
aatcaaaaatc	tgacagaaaa	acacagctgt	tcagctctgg	aatctgatga	taggctactt	900
tttaatgtca	ggacatcctt	ctaaacttcc	acttacagtg	tcacatgtaa	gcatgaaggc	960
tggtcgttg	gtgagccatt	gctttgtttt	taggaagaca	gttatgaatg	ccatggacaa	1020
tctcagtaca	tgttgtttgt	tatgatttta	ttcacgctaa	aggaatgggt	attaaaatta	1080
agtgcataata	atatagaatt	cagtttcaag	tctgaagtta	gcgtaaaattt	agattcttca	1140
gactaacata	aaacatgatt	ttgagaagtt	aaataggaag	atgccttttt	tagaagttta	1200
gcatattttag	tttatctccc	aaatcttgct	tagaaatcaa	atgtatataa	gagaagtttag	1260
ttacagagct	agattgatta	actacttctt	taatgaagat	ttgctatgaa	tttgtttact	1320
ctttcataacc	accttcagat	agctagtccag	ttcagcagga	gcagagacca	ggtttagcacg	1380
cggatgggggt	gtaattcagt	gtttttgtgt	tgtacagcct	gagaaatgcc	agtggcctga	1440
cagcagcaga	cattgcacaa	acccaggggt	tccaagagtg	tgcccagttt	ctcttgaacc	1500
tccagaattg	tcactctgaac	catttctata	acaatggcat	cttaaatggg	ggctcatcaga	1560
atgtattttcc	taatcatatt	agtgtgggaa	caaatcgaaa	gagatgcttg	gaagactcag	1620
aagacttttg	agtaaagaaa	gctagaactg	aagggtgagac	cgctttgcgg	gtgggaagag	1680
cacacttatt	tttcctttct	gtaatatgtt	ttctttttat	ggctgagcgc	accttcgaga	1740
tgagaccttc	acttcagggtg	gtaatgcgcc	tggtggattg	tgcggtgacg	gtggagattt	1800
ctcctgtact	gccactgcga	agatgggact	taacaaaagg	gaatgtgagg	gaaatactga	1860
tgggcccaagt	gtaaatgtct	atgtggaact	ttttgagcac	ccatgtttac	ctgccgtgaa	1920
ttagattttt	taatttggtg	tatctgtttg	aaatatatct	attaaaaaaa	atctgccact	1980
gaaaaaaaaa	a					1991

<210> 668
 <211> 1156
 <212> DNA
 <213> Homo sapiens

<400> 668						
cagtttttcaa	agggttaagta	agcactgaag	tgtgaataca	ttaagagaaa	gatatgtaat	60
taaaaaatcca	ctacacaaaa	taaatatgag	atatatgtgt	atgactaata	tgccagattt	120
acttttgtag	actttgtctga	gtattatgaa	tttttgtaag	aaattcctaa	gaatctttct	180
aatcttagca	gttttccatta	atgaaatggt	ttttgaagga	tttagcagga	aatacatata	240
acttttgaaa	cttatgttta	tagctgaact	tggtgactat	gatcttgctg	agcatagtcc	300
tgaacttgct	tcagagttca	gattcgtgcc	tattcagact	gaagagatgg	aactggctat	360
ttttgagaaa	tggaaggaat	acagagggtca	aacaccagca	caggctgaaa	ccaattatct	420
gaataaagcc	aaatggctag	aaatgtatgg	ggttgatatg	catgtggtca	aggctagaga	480
tggaatgac	tatagtttg	gactaacacc	aacaggagtc	cttgtttttg	aaggagatac	540
caaaattggc	ttattttttt	ggccgaagat	aaccagattg	gattttaaga	agaataaatt	600
aaccttggtg	gttgtagaag	atgatgatca	gggcaaaaga	caggaacata	catttgctct	660
tagactggat	catccaaaag	catgcaaaca	tttatggaaa	tgtgctgtgg	agcatcatgc	720
tttcttcgcg	cttcgaggcc	cgtccaaaa	gagttctcat	cgatcaggat	ttattcgact	780
aggatcacga	tttagatata	gtgggaaaac	agagtatcag	accacaaaaa	ccaataaagc	840
aagaagatca	acatcctttg	aaagaaggcc	cagcaaacga	tattctagac	gaactctaca	900
aatgaaagca	tgtgctacaa	aacctgaaga	acttagtggt	cacaataatg	tttcgacca	960
aagtaatggc	tcccaacagg	cttgggggat	gagatctgct	ctgcctgtga	gtccttccat	1020
ttcctctgct	cctgtgccag	tggagataga	gaatcttcca	cagagtcctg	gaacagacca	1080
gcatgacagg	aaatggctct	ctgctgccag	cgactgctgt	caacgtgggtg	gaaaccagtg	1140
gaacacaagg	gccttg					1156

<210> 669
 <211> 539
 <212> DNA
 <213> Homo sapiens

<400> 669
 aagaatccag atggtggcct tttgggggca ttaggatcct tcttcttgcc tcccttagct 60
 ggtccataat ccttcatttc ccgatcatag cacacttcat ccgcctttgc catttcacca 120
 aatttaaatt tctctttact ggacattgtc ttccacctcc cagagcattt cttggaaaat 180
 tctgcaaaat tgacaggac ttctgggttt ttcttcttat gttcttctct gcattggaac 240
 aggaattaaa agaaattaaa gaggcggggc gcagtggctc acgcctgtaa tcccagtaat 300
 ttgggaggcc aaggcgggag gatcacctga ggtccagagt tcaagaccag cctgaccaac 360
 atggagaaac cctgtctcta ctaaaaatac aaaaaattag ccgggtgtgg tgggtcatgc 420
 ctgtagtccc agctactccg gaggtctagg caggagaatg gcttgagcct gggaggcggg 480
 ggttgctgtg agccgagatc gcacctttgc actctagcct gggcaacaag agcgagact 539

<210> 670
 <211> 682
 <212> DNA
 <213> Homo sapiens

<400> 670
 ctgggggtcc tggctgaact ggtctggtgt taagggggcc ccctgacccc cttgaagggg 60
 gggctgggct ggggtgagggg ggggtggccga cccccagcca ggttcccagg caggatgagc 120
 tggggtttgg gtggctaggc cgagggcctt gggagctggg cagtctgggc tgggctgggc 180
 tgggcagggc gccacatgga agctggagga gcaacgggag cgctgggcgt ggggagcaaa 240
 ttgcccagtg ccttctgttt cccaggcagc tctgtggcca tggatatgtt ccagaaggta 300
 gagaagatcg gagagggcac ctatggggtg gtgtacaagg ccaagaacag ggagacaggg 360
 cagctggtgg ccctgaagaa gatcagactg gatttgtgag tgcctgggacg gccctgagc 420
 taccaccctt gggccatcac aacctgggag ctccctgacg cgttccctct ttcctggagt 480
 ccacgtttta ctctcttggg tgctgcccag cagcccttac ctgtcctctc ccagttcac 540
 tgccttctga ccagcctttg ccggggccct gactgtggag tttggtggat gacgtgccaa 600
 ggagcacagg tctccattgc cggggccctg gtcattctgt ggggttaagg agaagccgat 660
 cccctgggct ggaagtgcct tt 682

<210> 671
 <211> 536
 <212> DNA
 <213> Homo sapiens

<400> 671

gcctgtgtgt	ctctgtgctt	tgctccttct	cctacctcca	aatggctgg	actgcctccg	60
atccagttca	tggtacttgg	ttcaggggca	ggggaccatg	taagccggaa	cattccagtg	120
gccacaaaca	acccagttcg	agcagtgcag	gaggagactc	gggaccgatt	ccacctcctt	180
ggggaccac	agaacaagga	ttgtaccctg	agcatcagag	acaccagaga	gagtgatgca	240
gggacatacg	tcttttgtgt	agagagagga	aatatgaaat	ggaattataa	atatgaccag	300
ctctctgtga	atgtgacagc	gtcccaggac	ctactgtcaa	gatacaggct	ggaggtgcca	360
gagtcggtga	ctgtgcagga	gggtctgtgt	gtctctgtgc	cctgcagtgt	cctttacccc	420
cattacaact	ggactgcctc	tagccctgtt	tatggatcct	gggtcaagga	aggggccgat	480
ataccatggg	atattccagt	ggccacaaac	acccaagtg	gaaaagtgca	agagga	536

<210> 672
 <211> 1038
 <212> DNA
 <213> Homo sapiens

<400> 672						
tttcgtccct	ggagctggcg	aggtgtccgg	ttgcggagcc	ggcggcgtct	ctggaaatgc	60
atcctgcatc	cccgcatgga	taacagctgc	agctatgtca	gaattgcaca	aagaggggag	120
agtgtcattg	tgtgcctttt	gacacatata	ttaagaccaa	aaaggaaaaa	aagcgtctat	180
ctgtgctgcc	accgaccaga	ctcatggagg	ccagattttc	tccaattaac	cagatcttgc	240
cctggtgcag	acaagactta	gccatcagca	tcagcaaagc	catcaacacc	caggaggccc	300
ccgtgaagga	gaagcacgcc	cggcgcatca	ttctggggcac	acaccacgag	aagggggctt	360
tcaccttctg	gtcctatgcc	attgggctgc	cgctgccag	cagctccatt	ctcagctgga	420
agttctgcca	cgctcctcac	aaggtccttc	gagacgggca	ccccaatgtg	ctgcatgact	480
gccatgggta	cgcgagcaac	atccgggaga	ttggagacct	gtggggacat	ttgcatgacc	540
gctacggaca	gctggtgaat	gtctacacca	agctgctgct	gaccaagatc	tccttcacc	600
tcaagcatcc	ccagtttccc	gcgggcctgg	aggtgacaga	tgaggtactg	gagaaggcag	660
ctgggaccga	tgtcaacaac	atgtgagtca	ctctgcatgg	ctacatggcc	agttcccctc	720
ggcttcccca	ttccttccta	ccgcgtctca	cgcccaggcg	tccgcatggg	gcagtggggt	780
tgaatgagtc	cgtggccttg	ttggttgatg	ctcacgctcc	cagggacaga	gggtgaagtt	840
aaaagggtgg	ggtgtacttg	aaggactgtc	gtcctggcag	aggcacgctg	tctcaccaga	900
gccatgggtg	cgcgggtgcc	cccgtcccca	ctggaggggg	cgtctcaaga	cgagtgggtg	960
ggtccacca	ccctttttca	tttcttcccc	cacttctctt	gcgtagcttc	cagctcactg	1020
tgagatggtt	tgattacc					1038

<210> 673
 <211> 676
 <212> DNA
 <213> Homo sapiens

<400> 673						
tttcgtcccg	gcggctgcat	tgttttcctc	cgcggatccg	cggctggact	tggaccacgg	60
gctctcccga	cagcgccctg	gaaccctaat	tcaagcacca	tccaattcgg	acgctcatcg	120
catctgcct	gagcacaacc	acggattgag	aactcagcgc	agcgcgtggc	cgctggccgc	180
cccgggcgat	ctcgatcccg	ctgaccggaa	tcttgagtc	agaggtttcc	tatccccctc	240
aagccccac	aggagtccac	aaccagggc	cggcttatgg	gtgagggggc	acccctggg	300
gctgagctg	ccccgcacag	gatgcgccgt	gccccccact	tcatgccctt	gctgctactg	360
ctgctgctgc	tctcaacttc	ccatactcag	gccgcctttc	cccaggaccc	cctccctctg	420

ttgatctctg	accttcaagg	tacttcccca	ttatcctggc	ttccgagcct	ggaggatgat	480
gctgtggctg	cataacttgg	gctggacttt	cagagattcc	tgaccttgaa	ccggaccttg	540
ctagtggctg	cccgggatca	cgttttctcc	ttcgatcttc	aagccgaaga	agaaggggag	600
gggctggctg	ccaacaagta	tctaacatgg	agaagccaag	atgtggagaa	ctgtgctgta	660
cggtgaaagc	tgacgg					676

<210> 674
 <211> 418
 <212> DNA
 <213> Homo sapiens

<400> 674						
tctcttcata	cagacacacg	tgacatttgg	tgccaaagac	ccggggggagg	gggactcctt	60
cgggagacca	gtcccctgtc	ctcacctca	ctccatgagg	agatccacct	accatcttgg	120
gtcctcagac	caaccagccc	aaggaacatc	tcaccaattt	caaatcagggt	aagcggctctt	180
ttcactctct	tctccaacct	ctcttgctgt	tgctccaccc	ttcaatctct	cccttcctta	240
atthtgggtc	ctttcccttt	ctggtagaga	cagaagagac	gtgttttata	cataaactca	300
aaactccagc	gctgggtcact	ccagacagtc	ttccgttggg	gtttaatcac	tgtggggatg	360
cctgcctgat	tattcaccca	catttcagggt	atgtcgaatt	ccaccacacg	ggtaatac	418

<210> 675
 <211> 1423
 <212> DNA
 <213> Homo sapiens

<400> 675						
tgctgttcaa	caaaaaacat	atcaggggac	aaagcatgta	acttgatgat	cttcgacact	60
cgaaaaacag	ctagacaacc	caactgctac	ctatthttct	gtcccaacga	ggaagcctgt	120
ccattgaaac	cagcaaaaagg	acttatgagt	tacaggataa	ttacagatth	tccatcttth	180
accagaaatt	tgccaagcca	agagttaccc	caggaagatt	ctctcttaca	tgccaatth	240
tcacaagcag	tcactcccct	agcccatcat	cacacagatt	attcaaagcc	caccgatata	300
tcattggagag	acacactthc	tcagaagtht	ggatcctcag	atcacttgga	gaaactatth	360
aagatggatg	aagcaagtgc	ccagctcctt	gcttataagg	aaaaaggcca	ttctcagagt	420
tcacaattht	cctctgatca	agaaatagct	catctgctgc	ctgaaaatgt	gagtgcgctc	480
ccagctacgg	tggcagttgc	ttctccacat	accacctcgg	ctactccaaa	gcccgcacc	540
cttcttacc	accaatgctt	cagtgcaccc	ttctgggact	tcccagccac	agctggccca	600
ccacagctcc	acctgtaacc	actgtcactt	ctcagcctcc	cacgacctcc	atthctacag	660
ttthttacag	ggctgcggct	acactccaag	caatggctac	aacagcagtt	ctgactacca	720
cctttcaggc	acctacggac	tcaaaaggca	gcttagaaac	cataccgtht	acagaaatct	780
ccaacctaac	tttgaacaca	gggaatgtgt	ataaccttac	tgactthtct	atgtcaaatg	840
tgaggtcttc	cactatgaat	aaaactgctt	cctgggaagg	tagggaggcc	agtccaggca	900
gttctctcca	gggcagtggt	ccagaaaatc	agtacggcct	tccatthgaa	aaatggcttc	960
ttatcgggtc	cctgctctth	ggtgtcctgt	tcttggtgat	aggctcgtc	ctcctgggta	1020
gaatcctctc	ggaatcactc	cgcaggaaac	gttactcaag	actggattat	ttgatcaatg	1080
ggatctatgt	ggacatctaa	ggatggaaact	cgggtgtctc	taattcattt	agtaaccaga	1140
agcccaaatg	caatgagtht	ctgctgactt	gtagtctcta	ggaggttgta	ttthgaagac	1200
aggaaaatgc	ccccctctgc	tttctthttt	ttthtttgaa	acagagtcct	gtthtgttgc	1260
ccaggctgga	gggcagaacc	acaatthtgg	ttthtaaccga	accctccgtt	tcttgggtta	1320

aagcaattct	cctgcctcac	cctcctaaga	atctggaatt	acgggcatgg	gccaccaccc	1380
cggggggatt	tttggatttt	tagtaaagac	ggggtttcac	cat		1423

<210> 676
 <211> 621
 <212> DNA
 <213> Homo sapiens

<400> 676						
cggggaggt	ccaggtattt	gagagcaatc	gccaccgctt	tcctggaact	tgaggctgga	60
gtgcagcgg	gtgatctcgg	tttactgcaa	cctccacctc	ctgagttcca	gcgattctcc	120
tgccctcag	tcctgagtag	ctgggattac	agtaaataca	atcaaggggc	atcttaaatt	180
tttgctggaa	gtggagtcac	gagactaaag	atatctcttt	taaaagaacc	aaagcatcaa	240
gaattagtaa	gctgtgtggg	ctggactact	gctgaagagc	tgtattcatg	tagtgatgat	300
caccacatag	tgaagtggaa	cttggttaacc	agtgaacaaa	ctcaaatagt	aaagcttcct	360
gatgatattt	accctattga	ttttcactgg	tttccaaaaa	gtttgggtgt	aaagaaacaa	420
acccatgcag	aaagctttgt	cctcacaagt	tctgatggta	aatttcacat	gatttccaag	480
ttaggaagag	tggaaaaaag	tgtagaagct	cactgtggag	cagtacttgc	aggaagatgg	540
aattatgaag	gaacagcatt	agttacagtt	ggagaagatg	gacaaatata	aatttggtca	600
aagactggga	tgcttatatc	t				621

<210> 677
 <211> 1258
 <212> DNA
 <213> Homo sapiens

<400> 677						
ccccgggtcga	cgatttcgtg	cggcgggcta	tccggtcctc	ggctgcggcg	ggcaccatgg	60
tcgggtggcga	ggcggctgcc	gcagtggagg	agctggtttc	gggggtgcgg	caggcgggccg	120
acttcgcgga	gcagttccgc	tcctactcag	agagcgagaa	gcaatggaag	gcccgcattgg	180
aattcatcct	gcgcacactg	cccgactacc	gcgacccgcc	cgacggcagt	ggccgcctgg	240
accagctgct	ctccctctcc	atgggtctggg	ccaaccatct	cttcctaggc	tgcaagtaca	300
ataaagacct	tttagacaag	gtgatggaaa	tggccgatgg	gattgaagtg	gaagacctgc	360
cacaatttac	taccagaagt	gaattaatga	aaaagcatca	aagctaagcc	agaagattta	420
tcacattttc	atcatcagct	acaggattag	aaaggaggct	gggatgaatg	tgacatagac	480
cacagcagct	ctcttaagac	tcctgggtatt	accaacataa	agaggcaggt	ggaatgagaa	540
ggactctgtc	tagattggct	tttttaacat	tctcattttc	ccaggagtta	tcactgtaaa	600
agtagcatg	gatatttatg	tatttataaa	tcattgcactc	taagatgagt	tcataacat	660
tgtaaaagcc	ctcttttctg	ttttcaggtt	tttttttttc	ttatcgacaa	ggtctcactc	720
tgtcgcccag	gcagaagcac	aaagggtgcag	tattggctca	ttgcagcctc	gaactcctgg	780
gctcatattt	tcagggtttt	ttgttttttt	ttttgttttt	ttgagacaga	gtcttgctct	840
gttgcccagg	cagtagtgca	gtggcgcgat	atattttcag	tttttaaacg	tcagaatttt	900
tgtttaaaat	gccttttttg	gctgggcaca	gtggcttatg	cccataataa	tcccagcact	960
ttggggaggcc	gaggtgagca	gatcacctga	ggttaggagt	ttgagaccag	cctggccaac	1020
acgatgaaac	cccgtctcta	ctaaaaatac	aaacaaaatt	agctgggcat	ggtggcggac	1080
atctgtaate	ccagctactc	aggaggctga	agcagaagaa	ctgcttgaac	ctgggaggtg	1140
gaggttgtag	tgagccaaga	tcgcaccatt	gcactccatc	ctgggcgaca	aaaatgaaac	1200
accgtctcaa	aaaaaataaa	aataataaaa	taaaatgcct	ttttgttgtt	gctcgtgc	1258

<210> 678
 <211> 1289
 <212> DNA
 <213> Homo sapiens

 <220> .
 <221> misc_feature
 <222> (1)...(1289)
 <223> n = a,t,c or g

<400> 678
 cgccaccggt atgcaccatt accatccccg cggctcagtc gagcattcgt ccacgggccc 60
 gagggcgggg cgcccgggtc cggagggagc cagcccnac cacaacaaac gcgtctgcgc 120
 atgcccgggc gctgggttca ggggctttcc gccgtctgg gttcacagct ggacgtcggg 180
 agtgctagtt tggagtagc catttgagag taggcgtgag aagttgctct gtgtgctgag 240
 cgttctaag gaaggcgtcc gttggccttc gtaccgctct tgagtgaggt gacgagtgtt 300
 ttctagtact ggggtcggcc gcgcagccct ctacgggggtg ggtggcagga agagtgcggg 360
 gtcccgcgtg gtgcaaaagg tgggttcagg tttgcggcca cacagcgcta ctcaggactt 420
 tttagtcttg tttatcttct ccgtgcctgt tcccgcctcc cgcagctcca cctctgggag 480
 agggcggggt tcagctccag gaggcgggga cttcccggct tggcgtgggt ggggtgtccc 540
 gtggacccca gtctcggcgc ggtgaccac ttatgggact tggcctttct ttgttgtttg 600
 ttttaaggcag ggtttctcag cctgggcact actgaggttt tgggccggct aattctgtct 660
 ggggttggga ggggtgctgc ccgtgcttcg caggttgtgt agctgcatcc cccgcctcta 720
 cccagtggtat gcaagtagca gcccagtgga accaaaaatg ccccagact ttgccaata 780
 tcccctcccg gggaagatcg cctcgcttga gaaccactgt tggaggagag cctgggtttt 840
 cgggaggtaa ccgttttaca aggggagaac ggtaagaagc cggaagcaac gatgacttag 900
 ctacgtgaaa gacttgccgc cgggctcgcc cctctcttag aagccgtcag tttgggtctc 960
 gcgtctggaa tcaccgtcaa ggagtcagat ccagccccgg agagggagca gggtcgaggt 1020
 ctccctgcag aaggcgccac cgcaggaagc acaggcgcaa cgtgcagtct ccctagcggg 1080
 gggcttcgag atcctgcagc cgcgggtccg ggaggtgctc ggtagccctc cttggtgcct 1140
 gtccggtgag tgggtcactct cgggggaagg tcgtgtgcag aagggcacat gcgatcacac 1200
 agagacggcg ttgctgcggc tttgaccgga tgggtgcaccc gaaagaacac agagggtgaa 1260
 gggagagatc caggaagtgg tcgcggagc

<210> 679
 <211> 539
 <212> DNA
 <213> Homo sapiens

<400> 679
 agtctcgctc ttgttgccca ggctagagtg caaagggtgcg atctcggctc acagcaacct 60
 ccgcctccca ggctcaagcc attctcctgc ctacagcctcc ggagtagctg ggactacagg 120
 catgcaccac cacaccgggc taatctttttg tatcttttagt agagacaggg tttctccatg 180
 ttggtcaggc tggctctgaa ctctggacct cagggtgatcc gcccgcttg gcctcccaaa 240
 ttactgggat tacaggcgtg agccactgcg ccgggcctct ttaatttctt ttaattcctg 300
 ttccaatgca gagaagaaca taagaagaaa aaccagagaag tcctgtgcaa ttttgcagaa 360
 ttttccaaga aatgctctgg gaggtggaag acaatgtcca gtaaagagaa atttaaatat 420

ggtgaaatgg caaaggcgga tgaagtgtgc tatgatcggg aaatgaagga ttatggacca 480
gctaagggag gcaagaagaa ggatcctaata gcccccaaaa ggccaccatc tggattctt 539

<210> 680
<211> 349
<212> DNA
<213> Homo sapiens

<400> 680
ttagaagtga gttaaatttt cacattccca agggactctt tgtctcgggt tgttgaatat 60
attttaaagt gtttataata atcacttcaa aatatttagg taattaactg taaattatgt 120
tttggtattc tccagggaca gtggccttag agctattgag aatttgatgc aaaagaaggg 180
gaaatttgat tacatactgt tagagaccac tggattagca gaccctggta agaagtgaga 240
ttattaataa ccagaatata gttctgtgat atattgtaaa tagatgtatt agaggaatat 300
ctaaaatgag gattaaagct tttgttagta ttaaaccaaa aactttttt 349

<210> 681
<211> 329
<212> DNA
<213> Homo sapiens

<400> 681
ggcacgaggc ggcgctgtgt cggacccgtg ctgtggctgc cgagaggcat tttctgcgag 60
tgtttctctt cttcaggccc ttctggggtg taggcactga gagtggatcc gaaagcggaa 120
gttccaaagc caaggagcct agaacgccct caagcagcta cgggaccgcc caataccgac 180
gctggccaat agcccaggag tataaacact gcaccgcgca caatgacaca ggcactctct 240
gctccgagct gagagaacca tggaggagac cgcagtâgac agagccactg aactcatgac 300
aacgtgaagc gaactagaaa gtaatactc 329

<210> 682
<211> 574
<212> DNA
<213> Homo sapiens

<400> 682
acgagggctc cagtcaggcc aatacgctcc gctcacggaa ggaaaacaga aataacttgc 60
tggtttgtct ggagtcacat gtacttaggt gacaatttac agaaagtcac ctctgcagct 120
tgatgggcga caaccctttt caaccataaa gtaattcaaa aatggcagaa ctgtttatgg 180
aatgtgaaga agaggagctg gaaccatggc agaagaaagt aaaagaagtt gaggatgacg 240
atgatgatga gccaatcttt gttggcgaga tatcaagttc aaaaccagca atttcaata 300

ttttgaacag	agttaacccc	agctcatatt	caaggggact	aaagaatggg	gcactcagtc	360
gagggtattac	tgctgcattc	aagcctacaa	gtcaacacta	cacgaatcca	acatcaaadc	420
cagtgcctgc	ctcaccaata	aattttcatc	ctgagtctag	atcttcagat	agttctgtta	480
ttgggtcagcc	tttttctaaa	cctgtaagt	tttctaaaac	tatacggcca	gctcagggat	540
ccattggatg	ttgtttatca	atatcaacag	tacc			574

<210> 683
 <211> 627
 <212> DNA
 <213> Homo sapiens

<400> 683

cttgatgttt	ttcacttgaa	gacattttga	actttttctt	acaggggttc	tctgctgggc	60
tgtttgcat	ctaccatgat	aaagatggaa	atcctctcac	ttcaagattt	gcagatggcc	120
tcccaccttt	taattatagt	ctgggattat	atcaatggag	tgataaaagta	gttcgaaaag	180
tggagagatt	atgggatgtt	cgagataata	agatagtctg	tcacactgtg	tatctcctgg	240
taacgcctcg	tgttgttgag	gaagcacgaa	aacattttga	ttgtccagtt	ctagagggaa	300
tggaacttga	aaatcaagg	ggtgtgggca	ctgagctcaa	ccattgggaa	aaaagggttat	360
tagagaatga	agcgatgact	ggttctcaca	ctcagaatcg	agtactctct	cgaatcactc	420
tggcattaat	ggagacact	gggagacaga	tgctgagccc	ttactgtgac	acgctcagaa	480
gtaacccact	gcagctaact	tgagacagg	accagagagc	agttgccgtg	gtgtaatttg	540
cagaagttcc	ctaagccttt	accacaggaa	taccagtact	ttgatgaact	cagtgggaata	600
cctgcagaag	atttgcctta	ttatggg				627

<210> 684
 <211> 1271
 <212> DNA
 <213> Homo sapiens

<400> 684

gcggcgcgcc	gccgcagaca	gctgggtgcc	cgccggagaa	cgcccgagat	atccccgcgc	60
gcggaggagc	agccccagcg	ccaggcctcc	cgagctcccc	gggcagcagc	ccaaggccgc	120
gaagtccccg	tctccagttc	agggcaagaa	gagtcgcga	ctcctatgca	tagaaaaagt	180
aacaactgat	aaagatccca	aggaagaaaa	agaggagaa	gacgattctg	ccctccctca	240
ggaagtttcc	attgctgcat	ctagacctag	ccggggctgg	cgtagtagta	ggacatctgt	300
ttctcgccat	cgtgatacag	agaacacccg	aagctctcgg	tccaagaccg	gttcattgca	360
gctcatttgc	aagtcagaac	caaatacaga	ccaacttgat	tatgatgttg	gagaagagca	420
tcagtctcca	ggtggcatta	gtagtgaaga	ggaagaggag	gaggaaagaag	agatgttaat	480
cagtgaagag	gagataccat	tcaaagatga	tccaagagat	gagacctaca	aacccccactt	540
agaaagggaa	accccaaagc	cacggagaaa	atcagggaag	gtaaaagaag	agaaggagaa	600
gaaggaaatt	aaagtggag	tagaggtgga	ggtgaaagaa	gaggagaatg	aaattagaga	660
ggatgaggaa	cctccaagga	agagagggaag	aagacgaaaa	gatgacaaaa	gtccacgttt	720
acccaaaagg	agaaaaaagc	ctccaatcca	gtatgtccgt	tgtgagatgg	aaggatgtgg	780
aactgtcctt	gcccatcctc	gctatttgca	gcaccacatt	aaataaccagc	atttgcgtgaa	840
gaagaaatat	gtatgtcccc	atccctcctg	tggacgactc	ttcaggcttc	agaagcaact	900
tctgcgacat	gccaaacatc	atacagatca	aagggattat	atctgtgaat	attgtgctcg	960
ggccttcaag	agttcccaca	atctggcagt	gcaccggatg	attcacactg	gcgagaagcc	1020
attacaatgt	gagatctgtg	gatttacttg	tcgacaaaag	gcattctctta	attggcacat	1080

gaagaaacat	gatgcagact	ccttctacca	gttttcttgc	aatatctgtg	gcaaaaaatt	1140
tgagaagaag	gacagcgtag	tggcacacaa	ggcaaaaagc	caccctgagg	tgctgattgc	1200
agaagctctg	gctgccaatg	caggcgccct	catcaccagc	acagatatct	tgggcactaa	1260
cccagagtcc	c					1271

<210> 685
 <211> 685
 <212> DNA
 <213> Homo sapiens

 <220>
 <221> misc_feature
 <222> (1) ... (685)
 <223> n = a,t,c or g

<400> 685						
atgagggtcg	tcccacgcgt	ccgcttggtc	catgtgagag	aagctggctg	ctgaaatgac	60
tgcgaaaccgg	cttgccagaga	gccttctggc	tttgagccaa	caggaagaac	tagcggattt	120
gccaaaagac	tacctcttga	gtgagagtga	agatgagggg	gacaatgatg	gagagagaaa	180
gcatcaaaaag	cttctggaag	caatcagttc	ccttgatgga	aagaataggc	ggaaattggc	240
tgagaggtct	gaggctagtc	tgaagggtgc	agagttcaat	gtcagttctg	aaggatcagg	300
agaaaagctg	gtccttgtag	atctgcttga	gcctgttaaa	acttcattct	ctttggccac	360
tgtgaaaaag	caactgagta	gagtcaaadc	aaagaagaca	gtggagttac	ctctgaacaa	420
agaagagatt	gaacggatcc	acagagaagt	agcattcaat	aaaaccgcac	aagtcctctc	480
caaatgggac	cctgtcgtcc	tgaagaaccg	gcaggcagag	cagctgggtt	ttccccctga	540
gaaagaggag	ccagccattg	ctcccattga	acatgtgtct	agtggctgga	aaggcagaac	600
tcccctggag	cangaaattn	tcaacctnct	ncatangaac	aagcagncag	tgacagaccc	660
tttactgacc	cctgtggaaa	ggcct				685

<210> 686
 <211> 962
 <212> DNA
 <213> Homo sapiens

<400> 686						
cgcgggccg	tcgactttaa	gattaaatcc	atgtattgaa	aatattgttc	agaccccatg	60
tgacataact	ggagccagtg	cagtgccatg	aagaactacg	agattagcct	ggatattaac	120
ttgtcttcta	gagaatagat	ttcatgttcc	attcttctgc	aatggttaat	tcacacagaa	180
aaccaatggt	taacattcac	agaggatttt	actgcttaac	agccatcttg	ccccaaatat	240
gcatttggtc	tcagttctca	gtgccatcta	gttatcactt	cactgaggat	cctggggctt	300
tcccagtagc	cactaatggg	gaacgatttc	cttggcagga	gctaaggctc	cccagtggtg	360
tcattctctc	ccattatgac	ctctttgtcc	accccaatct	cacctctctg	gactttgttg	420
catctgagaa	gatcgaagtc	ttggtcagca	atgctaccca	gcttatcatc	ttgcacagca	480
aagatcttga	aatcacgaat	gccacccttc	agtcagagga	agattcaaga	tacatgaaac	540
caggaaaaga	actgaaagtt	ttgagttacc	ctgctcatga	acaaattgca	ctgctgggtc	600
cagagaaact	tacgcctcac	ctgaaatact	atgtggctat	ggacttccaa	gccaaagttag	660
gtgatggctt	tgaagggttt	tataaaagca	catacagaac	tcttgggtgg	gaaacaagaa	720
ttcttgcagt	aacagatttt	gagccaaccc	aggcacgcac	ggctttccct	tgctttgatg	780

aaccgttggt	caaagccaac	ttttcaatca	agatacgaag	agagagcagg	catattgcac	840
tatccaacat	gccaaagggt	aagacaattg	aacttgaagg	aggctctttg	gaagatcact	900
ttgaaactac	tgtaaaaatg	agtacatacc	ttgtagccta	catagtttgt	gatttccact	960
ct						962

<210> 687
 <211> 676
 <212> DNA
 <213> Homo sapiens

<400> 687						
accgatcgaa	gatccctcgg	agcgacccac	gcgtccggac	gccagcgctt	gcagaggctg	60
agcagggaaa	aagccagtgc	cccagcggaa	gcacagctca	gagctgggtc	gccatggaca	120
tcttggtccc	actcctgcag	ctgctgggtg	tgcttcttac	cctgcccctg	cacctcatgg	180
ctctgctggg	ctgctggcag	cccctgtgca	aaagctactt	cccctacctg	atggccgtgc	240
tgactcccaa	gagcaaccgc	aagatggaga	gcaagaaacg	ggagctcttc	agccagataa	300
aggggcttac	aggagcctcc	gggaaagtgg	ccctactgga	gctgggctgc	ggaaccggag	360
ccaactttca	gttctaccca	ccgggctgca	gggtcacctg	cctagaccca	aatccccact	420
ttgagaagtt	cctgacaaa	agcatggctg	agaacaggca	cctccaatat	gagcgggttg	480
tggtggctcc	tggagaggac	atgagacagc	tggtgatggg	ctccatggat	gtggtggctc	540
gcactctggt	gctgtgctct	gtgcagagcc	caagggaagg	cctgcaggag	gtccggagag	600
tactgagacc	gggaggtgtg	ctctttttct	gggagcatgt	ggcagaacca	tatggaagct	660
gggccttcat	gtggca					676

<210> 688
 <211> 639
 <212> DNA
 <213> Homo sapiens

<400> 688						
cggaacgcgtg	ggcgtatattg	cgcgtatgag	atgcattgtc	tcttcctctg	gagttgagct	60
gaatgaatac	ctccgaagcc	gttttggtct	ccaaatggga	atagctccac	tataccagcc	120
tcgtcttctc	tccgggggac	aacgtgggtc	agggcacaga	gagatattta	atgtcaccct	180
cttgggggctt	tcatgggact	ccctctgcca	catttttttg	agggtgggaa	agttgctaga	240
ggcttcagaa	ctccagccta	atggatccca	aactcgggag	aatggctgcg	tccctgctgg	300
ctgtgctgct	gctgctgctg	ctggagcgcg	gcattgtctc	ctcaccctcc	ccgccccggg	360
cgctgttaga	gaaagtcttc	cagtacattg	acctccatca	ggatgaattt	gtgcagacgc	420
tgaaggagtg	ggtggccatc	gagagcgact	ctgtccagcc	tgtgcctcgc	ttcagacaag	480
agctcttcag	aatgatggcc	gtggctgceg	acacgctgca	gcgcctgggg	gcccggtggtg	540
cctcggtgga	catgggtcct	cagcagctgc	ccgatgggtc	gagtcctcca	atacctccc	600
tcatectggc	cgaactgggg	agcgatccca	cgaaaggct			639

<210> 689
 <211> 116

<212> DNA

<213> Homo sapiens

<400> 689

tttttttttt	ttgagatgga	gtcttgctct	gtcaccag	ctggagtgcc	gtggcacgat	60
ctcagctcac	tgaacctcc	acctcccagg	ttcaagcgat	tctcgtgcct	cagcct	116

<210> 690

<211> 509

<212> DNA

<213> Homo sapiens

<400> 690

acaaacaggt	ggggtcaagc	acggagagag	aactgcccag	ggtataaaaa	gggcccacag	60
gagaccggct	ctaggatccc	aaggcccaac	tccccgaacc	actcagggtc	ctgtggacag	120
ctcacctagt	ggcaatggct	ccaggctccc	ggacgtccct	gctcctggct	tttgccctgc	180
tctgcctgcc	ctggcttcaa	gaggctgggtg	ccgtccaaac	cgttccgtta	tccaggcttt	240
ttgaccacgc	tatgctccaa	gcccatcgcg	cgcaccagct	ggccattgac	acctaccagg	300
agtttgaaga	aacctatatc	ccaaaggacc	agaagtattc	attcctgcat	gactcccaga	360
cctccttctg	cttctcagac	tctattccga	caccctccaa	catggaggaa	acgcaacaga	420
aatccaatct	agagctgctc	cgcatctccc	tgctgctcat	cgagtcgtgg	ctggagcccg	480
tgcggtacct	catgagtata	gtccccaac				509

<210> 691

<211> 1362

<212> DNA

<213> Homo sapiens

<400> 691

tttcgtgaaa	cttatcaaga	aacaccaggc	tgctatggag	aaagaggcta	aagtgatgtc	60
caatgaagag	aaaaaatttc	agcaacatat	tcaggcccaa	cagaagaaag	aactgaatag	120
ttttctcgag	ttccagaaaa	gagagtataa	acttcgaaaa	gagcagctta	aagaggagct	180
aaatgaaaac	cagagtaccc	ccaaaaaaga	aaaacaggag	tggctttcaa	agcagaagga	240
gaatatacac	catttccaag	cagaagaaga	agctaaccct	cttcgacgtc	aaagacaata	300
cctagagctg	gaatgccgtc	gcttcaagag	aagaatgtta	cttgggctgc	ataacttaga	360
gcaggacctt	gtcagggagg	agttaaacaa	aagacagact	cagaaggact	tagagcatgc	420
catgctactc	cgacagcatg	aatctatgca	agaactggag	ttccgccacc	tcaacacaat	480
tcagaagatg	cgctgtgagt	tgatcagatt	acagcatcaa	actgagctca	ctaaccagct	540
ggaatataat	aagcgaagag	aacgagaact	aagacgaaa	catgtcatgg	aagttcgaca	600
acagcctaag	agtttgaagt	ctaaagaact	ccaaataaaa	aagcagtttc	aggataacctg	660
caaatccaa	accagacagt	acaaagcatt	aagaaatcac	ctgctggaga	ctacaccaa	720
gagtgagcac	aaagctgttc	tgaaacggct	caaggaggaa	cagaccggga	aattagctat	780
cttggctgag	cagtatgatc	acagcattaa	tgaaatgctc	tccacacaag	ccctgcgttt	840
ggatgaagca	caggaagcag	agtgccaggt	tttgaagatg	cagctgcagc	aggaactgga	900

gctgttgaat	gcgtatcaga	gcaaaatcaa	gatgcaagct	gaggcacaac	atgatcgaga	960
gcttcgcgag	cttgaacaga	gggtctccct	ccggagggca	ctcttagaac	aaaagattga	1020
agaagagatg	ttggctttgc	agaatgagcg	cacagAACga	atacgaagcc	tggttgaacg	1080
tcaagccaga	gagattgaag	cttttgactc	tgaaagcatg	agactagggt	ttagtaatat	1140
ggctctttct	aatctctccc	ctgaggcatt	cagccacagc	tacccgggag	cttctgggtg	1200
gtcacacaac	cctactgggg	gtccaggacc	tcactggggg	catcccatgg	gtggcccacc	1260
acaagcttgg	ggccatccaa	tgcaagggtg	accccagcca	tggggtcacc	cttcaaggcc	1320
caatgcaaag	gggtacctcg	aggagcagta	tgggagtccg	ct		1362

<210> 692
 <211> 503
 <212> DNA
 <213> Homo sapiens

<400> 692						
gatcacgtgg	gcagctccgg	gcgcggcgct	tgttttgggt	tccttctaac	ttgcccacgg	60
cagcttcggg	gtgagcgact	ttcctgcacc	agctgcgcg	cctgctcaca	ccctgacctc	120
gttttcgggc	tctctgagcc	cgagttccg	caagcccctg	ggcggggctc	ctgccatgcc	180
gctagtccgc	tacaggaagg	tggatccct	cggataccgc	tgtgtaggga	agacatcttt	240
ggcacatcaa	tttgtggaag	gcgagttctc	ggaaggctac	gatcctacag	tggagaatac	300
ttacagcaag	atagtgactc	ttggcaaaga	tgagtttcac	ctacatctgg	tggacacagc	360
agggcaggat	gagtacagca	ttctgcccta	ttcattcctc	attgggggtcc	atgggttatgt	420
gcttgtgtat	tctgtcacct	ctctgcatag	cttccaagtc	attgagagtc	tgtaccaaaa	480
gctacatgaa	ggccatggga	aaa				503

<210> 693
 <211> 1671
 <212> DNA
 <213> Homo sapiens

<400> 693						
gcggcttgtg	tccacgggac	gcggtacgga	tgcttctccg	gccatgagga	aaccagccgc	60
tggtcttcct	ccctcactcc	tgaagggtga	gagggtttaca	cctgctccaa	cagactctcc	120
ccgggctagt	cctctccctc	ccgagagctc	tgcttttacg	gtttctggat	cgcttcctca	180
tggttggtcgc	gctgggtcgg	ctccctaggt	cctgggatac	tcccatctcc	ccccgccgcg	240
ggcgggacct	ttgcctctgt	ctctagactc	ccccgcctc	ggtcagcagg	gataaccctc	300
accccggttc	taatttgcca	gtctgggtct	gtctgcctcg	gtctcggagc	gggttttggg	360
gttcggctcc	ttcatcatcc	ggtcgcccgc	tccgcagtgc	tgctcctgce	tctggcacct	420
gcgcagccc	aggattcgac	tcaggcctcc	actccaggca	gcctctctct	tcctaccgaa	480
tacgaacgct	tcttcgcact	gctgactcca	acctggaagg	cagagactac	ctgccgtctc	540
cgtgcaaccc	acggctgccc	gaatcccaca	ctcgtccagc	tggaccaata	tgaaaaccac	600
ggcttagtgc	ccgatgggtc	tgtctgtctc	aacctccctt	atgcctcctg	gtttgagtct	660
ttctgccagt	tcactcacta	ccgttgctcc	aaccacgtct	actatgccaa	gagagtcctg	720
tgttcccagc	cagtctctat	tctctcacct	aacactctca	aggagataga	agcttcagct	780
gaagtctcac	ccaccacgat	gacctcccc	atctcacccc	acttcacagt	gacagaacgc	840
cagaccttcc	agccctggcc	tgagaggctc	agcaacaacg	tggaagagct	cctacaatcc	900
tccttgtccc	tgggaggcca	ggagcaagcg	ccagagcaca	agcaggagca	aggagtggag	960
cacaggcagg	agccgacaca	agaacacaag	caggaagagg	ggcagaaaca	ggaagagcaa	1020

gaagaggaac	aggaagagga	gggaaagcag	gaagaaggac	aggggactaa	ggagggacgg	1080
gaggtgtgt	ctcagctgca	gacagactca	gagcccaagt	ttcactctga	atctctatct	1140
tctaaccctt	cctcttttgc	tccccgggta	cgagaagtag	agtctactcc	tatgataatg	1200
gagaacatcc	aggagctcat	tcgatcagcc	caggaaatag	atgaaatgaa	tgaaatatat	1260
gatgagaact	cctactggag	aaaccaaacc	cctggcagcc	tcctgcagct	gccccacaca	1320
gaggccttgc	tggtgctgtg	ctattcgatc	gtggagaata	cctgcacat	aacccccaca	1380
gccaaggcct	ggaagtacat	ggaggaggag	atccttggtt	tcgggaagtc	ggctctgtgac	1440
agccttgggc	ggcgacacat	gtctacctgt	gccctctgtg	acttctgctc	cttgaagctg	1500
gagcagtgcc	actcagaggc	cagcctgcag	cggcaacaat	gcgacacctc	ccacaagact	1560
ccctttgtca	gccccttget	tgccctcccag	agcctgtcca	tcggcaacca	ggtaggggtcc	1620
ccagaatcag	gccgctttta	cgggctggat	ttgtacgggtg	ggctccacat	g	1671

<210> 694

<211> 898

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(898)

<223> n = a,t,c or g

<400> 694

tttttttttt	ttgtgacagt	ttctccactt	tattagcctg	gagctcctcc	ctgccagccc	60
caggggctgg	tcgctgggtc	ctgggcacag	tgagcagggc	tgaggtcaga	cgggttcggc	120
ccttgcccat	ggcagcttgg	ttgggacagc	cgggccaagg	gaaaaaaagg	tgcaaaagtc	180
caaatgctgg	cacttcaggt	gtggccggca	cccagccagg	cgagtggggt	gggcagggcg	240
ccatgcttct	ctcctggcga	caggtcggcc	gtgtagcagc	gccccctccc	agcagccact	300
aggaacagct	ggtgattctc	gccaggaact	gctgcgcccc	ccactcgtct	aggtcaatgg	360
ggcacaaaagt	tctgcagccg	gggattgggg	gtcctctcca	cgtactgcac	aggccttggc	420
ccgccctcac	cggctggggc	accatccagc	tgctgttgca	cctgctgcca	ggcttcggac	480
acaaagcgga	cattctcctc	gtgggccact	gtgtagggtc	cctgggtccc	ctcgaaggat	540
ggggacgtgg	agggggcccg	ccggccattc	acacgattga	acacaagcct	tggccctgga	600
ctgcaggaag	ggaggagacg	gacatgggtg	gtgcccatcc	caggtgcggg	gctgcctggc	660
agaactcagg	agcagccccg	ggccagcccc	ctttccccag	acttgccag	cctaggcact	720
tcttgaacca	gagagagcag	ccaccacag	cagccggtgg	cccaggcctc	tcttgcagtc	780
cccaagccat	cggcagctca	gctcacacct	gcagccctgt	gtcctgaggg	aagtgagtga	840
ctgtaggggg	ganatgcnc	gcctagaggt	tcgatcgggtg	gaaagacagc	cgggcccc	898

<210> 695

<211> 630

<212> DNA

<213> Homo sapiens

<400> 695

caaccccgcc	gccggggaca	tgtccaaccc	ctgaagccgg	aggaacgggc	cagtcagact	60
gcgcccagaca	ggtatatgga	aaagtctgat	tcagttacaa	tcagtgtatg	gaatcacaag	120
aagatccata	agaacaagg	tgctggattt	ctccgttgtg	ttcgtctttt	tccagtgcc	180

tcaaccacct	caaagacact	ggttatcaga	ggttggattt	atgcaaactt	gggccaaagg	240
acagttagaa	gacagtagct	gaagaagcat	ctgtagggaa	tccagaagga	gcattcatga	300
agatgttaca	agcccggaag	cagcacatga	gcactgagct	gactattgag	tccgaggcgc	360
cctcagacag	cagtggcatc	aacttgtcag	gctttgggag	tgagcagcta	gacaccaatg	420
acgagagtga	tgtagcagc	gcactaagtt	acatcttgcc	ttatctctca	ctgagaaatc	480
taggtgcaga	atcaatattg	ttaccgttca	ctgaacagct	atcttcaa	gtacaagatg	540
gagataggct	cctgagtatt	ttgaaaaaca	atagaaaagag	cccctcacag	tccagccttc	600
taggtaacaa	atttaaaaac	aaaatatttg				630

<210> 696
 <211> 879
 <212> DNA
 <213> Homo sapiens

<400> 696	
tttcgtctga	agcacagaca ccacttcccc aatctacagg agccatttta acagctaaaa 60
cttgctggat	tgctttttat tttcaagctc aaaagacgat agagaaagaa tacttgaagg 120
ccaagaagct	tgagagaaga aaaatttcag aaaaattgtc tcaatttgac tagaatatca 180
atgaaccagg	aaaactgaag caccttcctt aaagaaaact tgggtatata attactccac 240
agacagagct	gaggggtttt taccctaaatc agtcactgga ttttgctgcc tgatacgtga 300
atcttcttgg	aattttttct atgtggatct aaggggaatg ctttattatg gctgctgttg 360
tccaacagaa	cgacctagta tttgaatttg ctagtacgt catggaggat gaacgacagc 420
ttggtgatcc	agctattttt cctgccgtaa ttgtggaaca tgttcctggg gctgatattc 480
tcaatagtta	tgccgggtcta gccgtgtgtg aagagcccaa tgacatgatt actgagagtt 540
cactggatgt	tgctgaagaa gaaatcatag acgatgatga tgatgacatc acccttacag 600
ttgaagcttc	ttgtcatgac ggggatgaaa caattgaaac tattgaggct gctgaggcac 660
tcctcaatat	ggattcccct ggccctatgc tggatgaaaa acgaataaat aataatatat 720
ttagttcacc	tgaagatgac atggttgttg cccagtcac ccatgtgtcc gtcacattag 780
atgggattcc	tgaagtgatg gaaacacagc aggtgcaaga aaaatatgca gactcaccgg 840
gagcctcatc	accagaacag cctaagagga aaaaaaaaaa 879

<210> 697
 <211> 719
 <212> DNA
 <213> Homo sapiens

<400> 697	
ggcacgaggc	gagcggagtt agcagggctt tactgcagag cgcgccgggc actccagcga 60
ccgtggggat	cagcgtaggt gagctgtggc cttttgcgag gtgctgcagc catagctacg 120
tgcttgcgt	acgaggattg agcgtctcca cccatcttct gtgcttcacc atctacataa 180
tgaatcccag	tatgaagcag aaacaagaag aaatcaaaga gaataataaag actagttctg 240
tcccaagaag	aactctgaag atgattcagc cttctgcac tggatctctt gttggaagag 300
aaaatgagct	gtccgcaggc ttgtccaaaa ggaaacatcg gaatgaccac ttaacatcta 360
caacttccag	ccctgggggt attgtcccag aatctagtga aaataaaaaa cttggaggag 420
tcacccagga	gtcatttgat cttatgatta aaggtatgaa aaaatagata acttttgtct 480
taatttttaa	ttatgatata aggaaaaatt tgtaataact attatgaatt ctgccaatat 540
ctgtaatctg	gggatagtat aacagcacta taaatgtttt tgtatgtgac catttgtttg 600
acaagatcca	tgtgtggatg aaatgttagg aaaagggagg ccagtgga gtgggctcac 660

acctgtaatc ccagtaggct agggaggttg aagcaagagg atggcttgag tctagaagt 719

<210> 698
 <211> 420
 <212> DNA
 <213> Homo sapiens

<400> 698
 acatttcgtg ttaatggcgg gcagtagcgg ctgaggggat tgcagataac cgcttcccgc 60
 acggggaaaag tctaccctgc ctgccacttt ctgctcgccg tcagcgccgg agctcgccag 120
 catgtctgtg gtaccgcccc atcgctcgca gaccggctgg ccccgggggg tcaactcagtt 180
 cggcaacaag tacatccagc agacgaagcc cctcacctg gagcgacca tcaacctgta 240
 agtgcgggcg ggcttggcg ggcattttctc tcgtgaaagc tcctatagac tctccgacgc 300
 gccccgggct ttctggcgcg cttcacgcct ctgcacctcc ccgcctccaa ctcccgctgg 360
 cggatgcgcg ccttccctcc tctctcaggc ccttttctca tctccagcc tccaggattc 420

<210> 699
 <211> 422
 <212> DNA
 <213> Homo sapiens

<400> 699
 gcggaaggag aagatgtgcc gccgctgcca acgtcgagcg gcgacggctg ggaaaaagat 60
 cttgaagaag ctctggaagc aggaggttgt gatcttgaaa cgttgagaaa tataattcaa 120
 ggaagaccgc tgcttctga tctgagggcc aaagtttggg agattgctct gaatgttgca 180
 ggaaaagggt atagtttggc atcatgggat ggtatttttag acttgccaga acagaacact 240
 attcacaagg attgcctgca gtttattgac cagctttcag tgccagagga gaaggcagca 300
 gaattacttt tggatattga atctgtaatt acctttttatt gtaaatcacg taacattaaa 360
 tatagcacat cccttagctg gatacatcta ctgaaaccat tgggtgcact tcaactgcca 420
 cg

<210> 700
 <211> 412
 <212> DNA
 <213> Homo sapiens

<400> 700
 cagatcactc ccaaatatag ccctctccag aaaccacttg gatagaaaaa agtccaaaga 60
 gaactgaggt gtccaacaca tgagtgaggc cttcctggat ctctagctct cgtcaagcct 120
 tccaacacc acgaggaaca aaaatgagcc atccaaatga gctttaccga aattcctgac 180

ccacgggtgtc	aagagcaatg	aaaggggtgt	cgtttggtc	tttccgccat	cttttcgtgc	240
cgccacaatg	gtgcacatga	atgtcctgcc	tgatgtctc	aagagcatca	acaatgccga	300
aagaagaggc	aaaccccagg	ttcttattag	gctgtgtcc	aaaatcatca	tctggtttct	360
cactgtaatg	gtgaagtatg	gttacattgg	caaatttgaa	cccacgcgtc	cg	412

<210> 701
 <211> 977
 <212> DNA
 <213> Homo sapiens

<400> 701

agcggccgct	tgcggcggtt	ctggctcctg	tggcctcacc	aggaagcgtc	agagtcccga	60
cactggggaa	gtcgggagcg	ccgcctccgc	tgcgcgcgc	tcctgcctgg	ctctgggtcc	120
ccgagccccc	tcccctggcc	cagcccgact	ccctcctcct	tcccgaacca	tccggctcgg	180
gtcctctccc	tggcgatggc	tggccgctga	gccatggctc	agtacggcca	ccccagtcgg	240
ctcggcatgg	ctgcgagaga	ggagctgtac	agcaaagtca	ccccccggag	gaaccgccaa	300
cagcgccccc	gcaccatcaa	gcatggatcg	gcgctggacg	tgctcctctc	catggggttc	360
cccagagccc	gcgcacaaaa	agccttggca	tccacgggag	gaagaagtg	tcaggcagca	420
tgtgactgg	tattctccca	tgtcgggtgac	cccttcctgg	atgacccct	gccccgggag	480
tacgtcctct	acctccgtcc	caccggcccc	ttagcacaga	agctttccga	cttttggcag	540
cagtcgaagc	agatctgcgg	gaagaacaag	gcacacaaca	tcttccccca	catcacactc	600
tgccagttct	ttatgtgcga	ggacagcaag	gtggatgccc	tgggggaagc	cctgcagacc	660
acggtcagtc	gctggaaatg	taagtctctg	gccccgctgc	ccctggagct	ctatacgtcg	720
tccaacttca	tcggcctctt	tgtaaaggaa	gacagtgcgg	aggtcctcaa	gaagtttgct	780
gctgactttg	ctgcagaggc	tgcatacaaa	accgaagtgc	atgtggaacc	tcataagaag	840
cagctacatg	tgaccctggc	ttaccaacttc	caagccagcc	acctaccac	cctagagaaa	900
ctggcccaga	acattgacgt	caagctaggg	tgtgactggg	tggctaccat	atcttctcgg	960
gatatccgat	ttgctac					977

<210> 702
 <211> 406
 <212> DNA
 <213> Homo sapiens

<400> 702

ggcagacgag	gccggcttct	ccgcggacag	ctagggagag	tgtcctgggt	gtcagccaga	60
acatgtcttt	caacctgcaa	tcatacaaga	aactgttcat	tttcttagga	aaatcactgt	120
ttagtcttct	ggaggctatg	atttttgctt	tactcccaaa	gccacggaag	aacgttgctg	180
gtgaaatagt	cctcatcaca	ggtgctggaa	gtggactcgg	aaggctctta	gccttgagct	240
ttgcccggct	gggatctgtt	cttgttctct	gggatataca	taaggagggg	aatgaggaaa	300
catgtaagat	ggctcgggaa	gctggagcca	caagagtgc	cgcctatacc	tgcgattgca	360
gccaaaagga	aggagtgtat	agagtagccg	accagggttaa	aaaaga		406

<210> 703

<211> 987
 <212> DNA
 <213> Homo sapiens

<400> 703
 tttttttttt ttgtgtttat aacagggtttt actttttttt ttaaaatggg gatgttctta 60
 ctaaatacca ttttatttca tttcttcaca gatcttctgg ttcttgatca tctataatta 120
 tcaagtgtcg tatatagga acaagtattg atgttcaata tgattcaaac tattactggt 180
 ccatagtcag tggagctttt tcaatgtcca gaaagaatac tttcaatctt tatgaacagc 240
 ctaggatttt gcagttgttt ctgaaggctc aaattgtcct gcttcaaatt tttctttgaa 300
 ttttaagtag tctcttcttt tatcaaaaata ttttatccac tgttggggac aacttgattc 360
 gaaagagctt cttaacttct tgcattgaga agcatcctct aagttctcat ctaaacactt 420
 ccagtactca tcccggggccc cccagcagac ctgtctttcc ttcatagatg gggctgccat 480
 tctactgcg atgaagctct ctgcccggcc acgtccggct tcctttcgat gtcgacggga 540
 ggaaactgtc acgcaggcca ccaaccggcg gtggaggggcg cggtgccgag tcctgccact 600
 gcagggtcgc cccgctggct caagctctag aagcgtagac ctcccagcc gcaaaaagca 660
 agtcacgcgc cgaaaccgcg gactcttttg acccttccga gctaccattt actttccata 720
 gaggggcggg acttcctggt tcgcttttat cttgtctcgc tcttcggccc agtctcgagt 780
 gcagtgggtg gaacacggct tactgcagcc tcaaaatcct ggacccaaaa gatcctccca 840
 cctcagcctg cctcccagggt agctgggact acaggcgcac aacaccatcg cttcttggat 900
 taaaagaaaa ggatgaaacg ggccccagaa agaggcgggt acgtcccaga acccatggca 960
 ggggagttgg gaaaataaat atttgta 987

<210> 704
 <211> 473
 <212> DNA
 <213> Homo sapiens

<400> 704
 cacctgcacc ggctgcgagg agcagggagc tcctcaaaga gctcaggaac ggacaggaca 60
 tggacacagt ggtcttttga gacgtgggtt tggatttcac gctggaggag tgggccttgc 120
 tgaatcctgc tcagagaaaa ctctacagag atgtcatgct ggagaccttc aagcacctgg 180
 cctcagtaga taatgaggct cagcttaaa cagtggggtc tatttctcag caggatactt 240
 ctggagaaaa attatccctc aaacagaaaa tagaaaagtt cacaagaaag aatatatggg 300
 cctccctttt aggaaaaaat tgggaagaac atagcgtaa agacaagcac aacaccaagg 360
 agagacattt gagcagaaat ccaaggggtg agagaccatg taaaagcagt aaaggtaata 420
 aacgtggaag aaccttcaga aagactcgaa attgtaatcg tcatctgcgc agg 473

<210> 705
 <211> 435
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(435)
 <223> n = a,t,c or g

```

<400> 705
tttttttttt caattattta taaaacttta atgagggaga ggccttaact cttectcagc      60
tctaccaact actgaaagga aaagctggtg ctggggagcc ctccacacca ctgactgatg      120
aatttcagca cgtcctggca cactgggctg tgggaggtct gtgagcaaat ggaagaacat      180
gagaggaact tgttaatgct ggaaatacaa aatcagctcc atcgaggct tcagggtctg      240
catctgcctt cctgtaatcc caccatctt tntagtgtgt atgtgggttt tttgtttgtt      300
ttgagacaaa gtcttgcttt gtcgcccagg ctggagtgcg gtggcacaaat ctcagctcac      360
tgcaagctct gcctcccggg ttcaagcaat tctcctgcct cagcctcctc agtagctggc      420
attataggcg cgtgc                                         435

```

```

<210> 706
<211> 894
<212> DNA
<213> Homo sapiens

```

```

<400> 706
gggcacgagg ttgaggcggc ggcgcgaggg agtatggttt gaagtgggtga acatggattt      60
ttctcggctt cacatgtaca gtcctcccca gtgtgtgccg gagaacacgg gctacacgta      120
tgcgctcagt tccagctatt ctccagatgc tctggatttt gagacggagc acaaattgga      180
ccctgtattt gattctccac ggatgtcccg ccgtagtttg cgctggcca cgacagcatg      240
caccctgggg gatggtgagg ctgtgggtgc cgacagcggc accagcagcg ctgtctccct      300
gaagaaccga gcggccaggt gagcacgct gcacttctc tccatctgat ctctaaccac      360
agttaaaacc aagcttccat actttttggt ctgtaaagcc gcaccctgtc tcgagcttaa      420
ggatatgtgt gtgtatgtgc gtgtacagac acacaaacct gccatataaa gtggtagttt      480
gctgcaaata aagactgaaa ggaactctgg aatctgtgtg gcttgtctag tattgatgtt      540
ctgctgttct tgtttcaagt tctcttcgct ggtgcacgcc acgtgcagtg ccagcactca      600
ggcttggaag ctttgtggtc ctgtgggtgg agctcagcta cagctgtcct accacatgtg      660
taaagaggaa ggaatcttac agattacaca tgctgtcgtg gacgatctcc gtgtccagtt      720
cattcttttt tctggagacg gagtctcgtc cttgtcgccc agggtggaat gcagtggcac      780
gatctcagct cactgcctcc tctgtctccc gggttcaagc gattctactg cagcagcct      840
cctgagtagc tgggattaca ggcgcccggc accacgcctg ggcaacagag tgag          894

```

```

<210> 707
<211> 410
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(410)
<223> n = a,t,c or g

```

```

<400> 707
tttctgcagg actgtaaact ggattcctgg aacctttgat attcctggct gtgtatagtg      60

```

cctgttggtg	gactgtactg	atactcaact	agagtgtgaa	gggactggat	tcctgcccct	120
gagacacaat	gcaagctgta	gtgcccttga	acaagatgac	agccatctca	ccagaacctc	180
aaactctggc	ctcgactgaa	caaaatgagg	tcccaagagt	ggttacttct	ggggaacaag	240
aagctatfff	aagaggaaat	gctgctgatg	cagagtcttt	cagacagagg	tttaggtggg	300
ttgttactc	agaagtagct	ggacccagga	aagctctgag	tcaactctgg	gagctctgca	360
atcagtggct	gagaccagac	attcacacga	aagaancaga	ttttagagct		410

<210> 708
 <211> 650
 <212> DNA
 <213> Homo sapiens

<400> 708

gccgatttgc	ctgttctcac	gccccaccct	cagacctagc	cgagacaaag	tttcacttat	60
agaagggaga	ggagcgaaca	tggcagcgcg	ttggcggttt	tgggtgtgtc	ctgtgaccat	120
ggtggtggcg	ctgctcatcg	tttgcgacgt	tccctcagcc	tctgcccata	gaaagaagga	180
gatggtgtta	tctgaaaagg	ttagtcagct	gatggaatgg	actaacaata	gacctgtaat	240
aagaatgaat	ggagacaagt	tccgtcgctt	tgtgaaagcc	ccaccgagaa	attactcctg	300
tatcgtcatg	ttcactgctc	tccaactgca	tagacagtgt	gtcgtttgca	agtatgaact	360
ccaactacgc	tttaaaatta	aataactcat	ataacgttaa	ccattttctc	atcccagaag	420
ggccaagtta	gtgcagtagg	tacttaata	atgtgtatac	cttactcagg	atgtctatgg	480
tagcaatact	actgctcttt	tatagtcaat	tcttgattat	ccgtatcagt	gggggaagca	540
tggataaata	attgtggtag	ccatcataaa	agtaacttaa	agatcaaaca	gtcatcttat	600
aaattagtat	caacttggcg	gggcatgggg	gctcatgect	gtaatccccg		650

<210> 709
 <211> 534
 <212> DNA
 <213> Homo sapiens

<400> 709

tttcgtggcg	aacgaggccc	cacctctgcc	gggagcggga	cgagcgcgca	ggcgcagtct	60
ccccagggtg	tagacgtgct	ggccccggcc	ggcggtgtaa	taacagatgc	gggtgaaaga	120
tccaactaaa	gctttacctg	agaaagccaa	aagaagtaaa	aggcctactg	tacctcatga	180
tgaagactct	tcagatgata	ttgctgtagg	tttaacttgc	caacatgtaa	gtcatgctat	240
cagcgtgaat	catgtaaaga	gagcaatagc	tgagaatctg	tggtcagttt	gctcagaatg	300
tttaaaagaa	agaagattct	atgatgggca	gctagtactt	actttctgata	tttggttggtg	360
cctcaagtgt	ggcttccagg	gatgtggtaa	aaactcagaa	agccaacatt	cattgaagca	420
ctttaagagt	tccagaacag	agccccattg	tattataatt	aatctgagca	catggattat	480
atggtgggtat	gaatgggatg	aaaaaatttt	cacccttttg	aataaaaaag	gttg	534

<210> 710
 <211> 478
 <212> DNA

<213> Homo sapiens

<400> 710

gattgagacc	ctattcgaga	ccatagtcca	tgtggtggaa	ttctgatgtc	tcaactccgg	60
cctctaggaa	cttgaatgag	gacaggaggg	tcagagggag	agcctaggag	gctgagccaa	120
ggagcgtgga	gaggagagac	aggggtgaagg	tggcggctgg	ctttctggaa	gcaggtggcc	180
tttgggtcgg	tcagcattcg	tgccagcccc	ctcttctctg	atcctctcca	tgtgtctctc	240
tcctggaatc	ccagaagctg	cccctgactc	cccattaact	gcctctgccc	ctacccccta	300
ggtgatgctt	ctgggagaca	caggcgtcgg	caaaacatgt	ttcctgatcc	aattcaaaga	360
cggggccttc	ctgtccggaa	ccttcatagc	caccgtcggc	atagacttca	gggtgaggtg	420
gctgcaggca	cttgctttcca	gcagagagcc	agggctgtgg	ctcaggcatg	gggggggt	478

<210> 711

<211> 585

<212> DNA

<213> Homo sapiens

<400> 711

cttctacccc	cggagctcag	ctgatcttcc	cttcagact	acgaggtgtg	aatttcaaac	60
ttccgtaatg	gagtttagccc	acagttttatt	gctaaatgaa	gaagcttttg	ctcaaatacac	120
cgaagcaaaa	agaccagttt	tcattctttga	atgggtgcga	tttcttgata	aagtcttggg	180
tgtgcaccaac	aaggatggg	attgctcttt	tttcccagtt	gcattaacgt	gaagagatta	240
tgtggtcatg	attcttaaga	aaacacatgt	tatgttttgg	aaggtttatg	ggtcacttat	300
ggaacttgag	agtattacac	gaatgggaaa	tttagtggca	aaactcaaac	ctcgtttaaa	360
tccagctcat	tgcttatctt	ctttatgttt	gtacctgggc	agctcattgt	aactggagaa	420
aaacatggct	atatgactgg	tgtcacttta	aatttatcat	cgtcaccctg	tgcaagtgat	480
ctctctatgc	tgccatacaa	tcccagtgtc	ttcacttata	tctttgagga	gtcaataata	540
ggctcttttt	tttttaattct	gtttttttctt	cctgcatagc	cttgt		585

<210> 712

<211> 391

<212> DNA

<213> Homo sapiens

<400> 712

acaaacagag	aactgggtttt	gacagtgttt	ctagagtgtc	ttttattatt	ttcctgacag	60
ttgcgttcca	ccatgattac	tttctccttc	agcgaatagg	ctaaatgaat	atgaaacaga	120
aaagcgtgta	tcagcaaacc	aaagcacttc	tgtgcaagaa	ttttcttaag	aaatggagga	180
tgaaaagaga	gagcttattg	gaatggggcc	tctcaataact	tctaggactg	tgtattgctc	240
tgttttccag	ttccatgaga	aatgtccagt	ttcctggaat	ggctcctcag	aatctgggaa	300
gggtagataa	atttaatagc	tcttctttta	tggttgtgta	tacaccaata	tctaatttaa	360
cccagcagat	aatgaataaa	acagcacttg	c			391

<210> 713
 <211> 524
 <212> DNA
 <213> Homo sapiens

<400> 713
 atccccacag ggtaatgggt gtcccgatgt cacgggggac tctgtgatcc gtgttcccct 60
 gacctctcta gtgcacaact tggccgggct cactgggctc ctgcaccact gcctgtcagg 120
 tccgctgcca gcccgaagcc cccaccagc catgagctcc tccagaaagg accacctcgg 180
 cgccagcagc tcagagcccc tcccggatcat cattgtgggt aacggcccct ctggtatctg 240
 cctgtctctac ctgtctctccg gctacacacc ctacacgaag ccagatgcca tccaccacaca 300
 cccctgtctg cagaggaagc tcaccgagggc cccgggggctc tccatcctgg accaggacct 360
 ggactacctg tccgaaggcc tcgaaggccg atcccaaagc cccgtggccc tgctctttga 420
 tgcccttcta cgccagaca cagactttgg gggaaacatg aagtcgggcc tcacctggaa 480
 gcaccggaag gagcacgcca tccccacgt ggttctgggc cgga 524

<210> 714
 <211> 2468
 <212> DNA
 <213> Homo sapiens

<400> 714
 gaatcgacgc acgcgtgcgc agcgtgccca gcgtggaagg agctgcgggg cgccgggagga 60
 ggaagtagag cccgggaccg ccaggccacc accggccgccc tcagccatgg acgcgtccct 120
 ggagaagata gcagaccccc cgtagctga aatgggaaaa aacttgaagg aggcagtga 180
 gatgctggag gacagtcaga gaagaacaga agaggaaaaa ggaaagaagc tcatatccgg 240
 agatattcca ggccactcc agggcagtg gcaagatatg gtgagcatcc tccagttagt 300
 tcagaatctc atgcatggag atgaagatga ggagccccag agccccagaa tccaaaatat 360
 tggagaacaa ggtcatatgg cttgttggg acatagtctg ggagcttata tttcaactct 420
 ggacaaagag aagctgagaa aacttacaac taggatactt tcagatacca ccttatggct 480
 atgcagaatt tcagatatg aaaatgggtg tgcttatttc cacgaagagg aaagagaagg 540
 acttgcaaa atagttaggc ttgccattca ttctcgatat gaagacttcg tagtggatgg 600
 cttcaatgtg ttatataaca agaagcctgt catatatctt agtgcgtctg ctagacctgg 660
 cctgggccaac tacctttgta atcagctcgg cttgcccttc ccctgcttgt gccgtgtacc 720
 ctgtaacact gtgtttggat cccagcatca gatggatggt gccttcctgg agaaactgat 780
 taaagatgat atagagcgag gaagactgcc cctgttgctt gtcgcaaag caggaaacggc 840
 agcagtagga cacacagaca agattgggag attgaaagaa ctctgtgagc agtatggcat 900
 atggcttcat ttggaggggtg tgaatctggc aacattggct ctgggttatg tctcctcatc 960
 agtgcgtggct gcagccaaat gtgatagcat gacgatgact cctggcccggt ggctgggttt 1020
 gccagctggt cctgcggtga cactgtataa acacgatgac cctgccttga ctttagttgc 1080
 tggctttaca tcaataaagc ccacagacaa actccgtgcc ctgcctctgt ggttatcttt 1140
 acaataacttg ggacttgatg ggtttgtgga gaggatcaag catgcctgtc aactgagtca 1200
 acggttgcag gaaagtttga agaaagtga ttacatcaaa atcttggtgg aagatgagct 1260
 cagctcccca gtgggtgggtg tcagattttt ccaggaatta ccaggctcag atccggtgtt 1320
 taaagccgtc ccagtgcaca acatgacacc ttcaggagtc ggccgggaga ggcactcgtg 1380
 tgacgcgtg aatcgctggc tgggagaaca gctgaagcag ctgggtgcct caagcggcct 1440
 cagctcatg gatctggaag ctgagggcac gtgtttgcgg ttcagccctt tgatgaccgc 1500
 agcaggtaaa ccaggcttgg tggacatccc ttgcttttgt tctggggctg ctgggtagat 1560
 tagcttgccc ttatgatact ccattctcct agagtatta gcagctcttt ttggaggggc 1620

atcttctctt	cttttgggct	aaatttaggt	agatttagcat	tcccatgtaa	cttaccagaa	1680
tcagaatgag	aattcagaag	tcacctgaat	tggccgggca	tgggtggctca	cacctgtaat	1740
cccagcacct	tgggaggcca	aggcaggcag	atcatctgag	gtcaggagtt	cgagaccagc	1800
ctggccaaca	tagtgaaatc	cgcacctac	taaaaataca	aaaaattagc	caggcacct	1860
gtccacagcc	cccacacaga	ctcgaggggc	ccccatctcc	tgttctgaac	ccaacagggt	1920
gggtccactg	tgggaccaca	accaggatg	actgtgtgag	aagcaggctc	actaccaggc	1980
taccagggag	cacaggggag	caggcgccac	cttgaggcat	aaaccagag	aaacaagacc	2040
tccaagacgg	ccaggcactg	gggcacacgc	cggtaacaca	gcaccgtggg	agctgagacg	2100
gaaggatcgc	ctgagcccag	gattttgaaa	ccaccctggg	caacacagt	agaccccgta	2160
tctacaaaaa	aatacacatt	agccaggcat	ggcggcatgc	gcctgggggtc	ccaagtactc	2220
gggaggtaga	ggagagaaaa	atcacttgag	cccagagagg	tcaaggctac	agggagctga	2280
gatcgcatca	ctgtactcca	gctgggggtga	aacggcgaga	ctctacctca	aaaataaata	2340
aatacatata	taattaataa	ataaaacatc	aaagaccagc	cgacctaaact	ccatctaaaa	2400
tacacaactt	ctacgcaaaa	tataaataaa	attagaaaac	aaactacaat	ctcagaaaaa	2460
cactagca						2468

<210> 715
 <211> 924
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(924)
 <223> n = a,t,c or g

<400> 715	
tttcgtgtaa	gatataactc aactttgaaa atgtcagccg ttatagttga agaaatctga 60
cccaagagac	ttcgcctccg tgcaagatgg aaggaagctt aagtaagaca taaatttgta 120
atgaacttgc	tcacaacatc cgccgccact gtgacttgca gtcacatcc attaccacaa 180
aattagttgc	aggatggcta ctcgatccc tccacacatg atcatcagta tttgcctcct 240
gtgtcccaac	cggcctgagt caaggttacg actcactgat taaaaagagg gactttttca 300
aatactttgc	acttttgatt gtgtattatg gataccaagg aagagaagaa ggaacggaaa 360
caaagttatt	ttgctcgact gaaaaagaaa aaacaagcca aacaaaatgc agagacagcc 420
tcagctgtag	ctacaaggac tcatactggg aaggaagata ataatacagt agtttttagag 480
ccagacaagt	gcaacattgc tgtggaagag gaatatatga ctgatgagaa aaaaaagaga 540
aaaagtaatc	agttaaagga gatcaggcgt acagaactaa agagatatta tagtattgat 600
gacaatcaaa	acaaaacaca tgataaaaaa gagaagaaga tgggtggttca gaagcccat 660
gggactatgg	aatacactgc tggaaaccag gacaccctaa actccatagc actgaatttt 720
aacatcactc	ccaataaatt ggtggaactg aataaaacttt tcacacatac tattgttcca 780
ggccagggtc	tttttgtgcc agatgccaac tctccttcca gtaccttaag gctatcatca 840
tccagtcctg	gtgctactgt ctctccttca tcatnagatg cagaatatgn taattggctg 900
atgctgactt	agcacggaag gctt 924

<210> 716
 <211> 679
 <212> DNA
 <213> Homo sapiens

<400> 716

```

tttcgtgctg tggcgcgcgg ccggcagagg gaggggagag gccactgggg ccgtgttagt    60
ctgccggtgg ggactccttg agggccgtcc ccatgttgcg ttttccgacc tgtttcccat    120
ccttcggggt ggtgggagag aagcagctcc cgcaggagat tattttcctg gtctggtcgc    180
ccaagcggga tctcattgct ttggccaaca cagctggcga ggttttactt catcgactgg    240
caagttttca tcgagtttg agttttccac caaatgaaaa tacaggaaag gaggtgacgt    300
gtctggcatg gagaccagat ggcaaacttt tggcctttgc tcttgctgat accaagaaaa    360
ttgttttggt tgatgtagaa aaacctgaga gcttacctc ttttctgtg gaggtccag    420
tttctgtat gcattggatg gaagtgcag tagaaagcag tgttctcaca tcattttata    480
atgctgagga tgaatcaa atctctcttac ctaaactacc tacactgcca aaaaactata    540
gcaacacctc aaaaatattt agtgaagaaa attctgatga aattattaag ctcttgggag    600
acgtcagggt taatattctc gtccttggag gaagctctgg atttattgag ctttatgctt    660
atggaatggt taaaattgc

```

<210> 717

<211> 821

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(821)

<223> n = a,t,c or g

<400> 717

```

ctttcatact gctcctccc ttgtttttct gtctcagaga gatagtctgt cctaaatata    60
ccatgtagcc caggccactg aattaaaacg gagcgatttc gttctctgcc ccaccccgca    120
actcctgaaa gcggcgcaac tcaattactt gatecttata tgccccacgc gggactcata    180
ctacgtttcc cgtgaacacg tgcagtccaa accccgcccc tgatatttat ctcagtggac    240
ggtggccgga aaaggacaat ggtttccatg tcagcgata aacgctctcc cctcggctcc    300
cggacgcgac ggaggtcgta gtagtagtga gtacgtgctg aggagcaaag gagtaaccac    360
gagatccagt gaccgacaga gcaagagcca tgccgcgccg gggcctggtg gctgggccag    420
acttgagtag ttttcagcgt cactatttca cgccggcgga ggtggcccaa cataacaggc    480
ccgaagacct ctgggtatct tacctgggac gcgtgtacga cctaacgtca ttggcacagg    540
aatacaaggg gaacctgctg ctgaaaccca tcgtggaagt tgcaggccag gatatcagcc    600
actggtttga tccaaagacc agagacgtga gttatgctgg aacctgggat tgtgggtaga    660
ggaaatggag agcggggatg ggaaggaaa ggcgaggcta gccagagcct aatggctgct    720
ctgacaccct cgccccaac cctcctttaa agatccgcaa gcacgaattc caccacatgg    780
nataaggggc gtcaatgnnn nnnnaagggg natcaanccc c

```

<210> 718

<211> 480

<212> DNA

<213> Homo sapiens

<400> 718

```

ccggattccg ggtcgacgat ttcgtgcggc ttttgtgttg ggcagcgca atgtggcgag    60

```

ctcgggtgcgt	ctccgctgct	ccttcccctt	atccctggga	ggtccaagtg	gtcccgcggc	120
agcttctgtt	gctctgggac	ctgcaggtec	cggaaggtec	ttagggagga	ccccagacac	180
cggagactgg	gaaatggatt	cagtgtcatt	tgaagatgtg	gctgtggcct	ttactcagga	240
ggagtgggct	ttgctggatc	ccttctcaaaa	gaatctctac	agagatgtga	tgcaagaaat	300
cttcaggaac	ctggcttctg	taggaaacaa	atcagaagac	cagaatatcc	aagatgactt	360
caaaaatcct	gggagaaatc	taagcagtca	tgtggtagag	agactgtttg	aaattaaaga	420
aggcagtcaa	tatggagaaa	ccttcagcca	ggattcaaat	ttgaatctga	ataagatagt	480

<210> 719
 <211> 467
 <212> DNA
 <213> Homo sapiens

<400> 719						
cgtaatctct	cagcctttct	gtgtctcctt	tcttccgcct	cagtttgggg	cggttcgggg	60
gaatggctga	ggagatggag	tcgtcgctcg	aggcaagctt	ttcgtccagc	ggggcagtg	120
caggggcctc	agggtttttg	cctcctgccc	gctcccgcct	cttcaagata	atcgtgatcg	180
gcgactccaa	tgtgggcaag	acatgcctga	cctaccgctt	ctgcgctggc	cgcttccccg	240
accgcaccga	ggccacgata	gggttggtt	tccgagaacg	agcgggtggg	attgatgggg	300
agcgcatcaa	gatccagcta	tgggacacag	caggacaaga	acgattcaga	aagagcatgg	360
ttcagcacta	ctacagaaat	gtacatgctg	ttgtcttcgt	gtatgatatg	accaacatgg	420
ctagttttca	tagcctacca	tcttggatag	aagaatgcaa	acaacat		467

<210> 720
 <211> 490
 <212> DNA
 <213> Homo sapiens

<400> 720						
tggcaccgat	ccgagattcc	cggatcgacg	atttcgtcgg	agccccgagg	ggccggagct	60
cctggcggtg	ccggatcctg	acggcggcct	tccccgggtt	cgattgtgat	catggctgct	120
gagtctgatg	ttctgcattt	ccagtttgaa	cagcaaggag	atgtggtcct	gcagaaaatg	180
aatcttttga	gacagcagaa	tttattttgt	gatgtatcaa	tttacattaa	tgacactgag	240
ttccaggggc	acaagggtgat	tttggctgct	tgctccactt	ttatgagaga	tcagttttta	300
ctcacacagt	caaaacatgt	cagaatcacc	atcttacaga	gtgcagaagt	tggcagaaaa	360
ttgttactgt	cttgcataac	tggagcactt	gaagttaaaa	ggaaagagct	tttgaataac	420
ttgactgctg	ccagttacct	tcagatgggt	cacattgcgg	aaaagcgcac	agaagctttt	480
gtcaagttct						490

<210> 721
 <211> 706
 <212> DNA
 <213> Homo sapiens

<400> 721

agaggagggtt	ggtgtggagc	acaggcagca	ccgagcctgc	cccgtgagct	gagggcctgc	60
agtctgcggc	tggaatcagg	atagacacca	aggcaggacc	cccagagatg	ctgaagcctc	120
tttggaaagc	agcagtggcc	cccacatggc	catgctccat	gccgccccgc	cgccegtggg	180
acagacaggc	tggcacgttg	caggtcctgg	gagcgtggc	tgtgctgtgg	ctgggctccg	240
tggctcttat	ctgcctcctg	tggcaagtgc	cccgctctcc	cacctggggc	caggtgcagc	300
ccaaggacgt	gcccagggtcc	tgggagcatg	gctccagccc	agcttgggag	cccctggaag	360
cagaggccag	gcagcagagg	gactcctgcc	agcttgtcct	tgtggaaagc	atcccccagg	420
acctgccatc	tgcagccggc	agcccctctg	cccagcctct	gggccaggcc	tggctgcagc	480
tgttgacac	tggccaggag	agcgtccacg	tggcttcata	ctactggtcc	ctcacagggc	540
ctgacatcgg	ggtcaacgac	tcgtcttccc	agctgggaga	ggctcttctg	cagaagctgc	600
agcagctgct	gggcaggaac	atttcctctg	ctgtgtgccac	cagcagcccc	acactggcca	660
ggacatccac	cgacctgcag	gttctggctg	cccagggtgc	ccatgt		706

<210> 722

<211> 677

<212> DNA

<213> Homo sapiens

<400> 722

tttcgtaacg	ccgcgtgctc	ttcccaaggg	gaggacgcgg	gagaagccgg	ggcctgagtg	60
ctccaaggcc	ccgtgggctt	cttgggtttg	ttgcctccgg	ccgctcatta	actcaggatg	120
gcgtggaaga	cctcgcccg	ctccccttct	gggccgcggc	tccgcttaag	tgaaggcctg	180
tttgggcgtc	cccaccctgg	agaggggccc	gggtctggat	tttcagaact	gccactcttc	240
tagtgcgctg	gcgtcaatgc	tcccttcctc	gggccattgg	agactccggt	gctttttaat	300
ggcggcagcg	gctgctgggt	gagcagctgg	aggccggaca	gtgttcgtcc	catccggaga	360
ggatcgcttt	ctcctggcgt	caccagcgct	gggttggtgg	gggtagcttt	tcctcttttg	420
ctcctccatt	cttgaagaaa	gaagaagatg	ccactgccat	ttgggttgaa	actgaaacgc	480
acccggcgct	acacgggtgc	cagcaagagt	tgcttggttg	cccggatcca	actgcttaat	540
aacgagtttg	tggagtccac	cctgtccgtg	gagagcactg	gccaggaaag	cctcgaggcc	600
gtggcccaga	ggctggagct	gcgggaggtc	acttacttca	gcctctggta	ctacaacaag	660
caaaatcagc	gccggtg					677

<210> 723

<211> 600

<212> DNA

<213> Homo sapiens

<400> 723

tttcgtgttg	agcaccttcg	tcgccattgg	ctttcctccc	ccagctccag	cctctctcat	60
cttgggaatc	tgcgtcagaa	gtcactcgca	gtcccgtcag	cccagaagac	gtaaagcagg	120
ctaccagcaa	ttttgagaa	ttgcaaaaac	agcttgcaag	gaaaatgaag	cttccatttt	180
tcatagcaga	tgcattcaca	gcaagagcat	ttcgtgggaa	tcctgctgct	gtttgectcc	240
tagaaaatga	attggatgaa	gacatgcac	agaaaattgc	aaggagatg	aacctctctg	300

aaactgcttt	tatccgaaaa	ctgcacccga	cagacaactt	tgcacaaagt	tcctgctttg	360
gactgagatg	gtttacacca	gcgagtgaag	tcccactctg	tggccatgcc	accctggctt	420
ctgcagctgt	gctgtttcac	aaaataaaaa	acatgaatag	cacgctcacg	tttgtcactc	480
tgagtggaga	actaagggcc	agacgagcag	aggacggcat	cgtcctggac	ttgcctcttt	540
atccagccca	cccccaggac	ttccatgaag	tagaggactt	gataaagact	gccataggca	600

<210> 724
 <211> 530
 <212> DNA
 <213> Homo sapiens

<400> 724						
tttcgttgcg	cgttccggaa	ctggtttccc	ggaaggagta	tgtctgcgcc	ttcgatccga	60
ccggaagttg	cacgctgagc	cgcgacacc	atgcagtcgg	atgatgttat	ctgggataca	120
ctaggaaaca	agcaattttg	ttccttcaaa	ataagaacca	agactcagag	cttctgccga	180
aatgaatata	gcctgactgg	actgtgtaat	cggtcatcct	gtcccctggc	aaatagtcag	240
tatgccacta	ttaaagaaga	gaaaggacag	tgctacttgt	atatgaaggt	tatagaacga	300
gcggtttttc	ctcggcgctc	ctgggaacgg	gtccggctta	gtaaaaacta	tgagaaagca	360
ctggagcaaa	tagatgaaaa	tctgatttac	tggccccgtt	tcattcgaca	caaagtgaag	420
cagagattca	ccaagatcac	ccaataccta	attcgaatta	gaaaacttac	actaaagcga	480
cagaggaaac	ttgttccttt	gagtaagaag	gtggagcgta	gggagaaaag		530

<210> 725
 <211> 428
 <212> DNA
 <213> Homo sapiens

<400> 725						
tttcgtagag	cggggactcg	gcgaccctgc	cctcccgacc	ctcatgttcg	aagagcctga	60
gtgggcccag	gcggccccag	tagccgcggg	ccttggggcc	gtaatctcac	gacctccgcc	120
tgcgccctcc	tcgcaaaaca	aggtgagtga	ctcgcgggag	caatgggagc	tgtttcaggc	180
cgcgaaagcg	acattggtgg	atcccagcgc	tgtgtgtatt	gcggggaggg	acacctgtgg	240
caccgttaag	ggcgagtctt	gatctgaaga	tccgagaact	tccaaaagaa	actgacgttg	300
ggtcagagag	agttgttgag	taaaagttgg	tgaagcgaag	agggttcttc	agacaggaaa	360
aagtacgtac	aagggccctg	ggacaagaga	gcattgttctg	tcagagtcac	aaacacaagt	420
ggtccttt						428

<210> 726
 <211> 859
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature

<222> (1)...(859)

<223> n = a,t,c or g

```

<400> 726
gtggtggaat tcctctggag caggaggccc agtggctctt ctgacccaag gccccgccgt    60
ccagcttcta agtgccagat gatggaggag cgtgcccaacc tgatgcacat gatgaaactc    120
agcatcaagg tggtgtctcca gtcggctctg agcctgggcc gcagcctgga tgcggaccat    180
gcccccttgc agcagttctt tgtagtgtg gagcactgcc tcaaacatgg gctgaaagtt    240
aagaagagtt ttattggcca aaataaatca ttctttgggt ctttggagct ggtggagaaa    300
ctttgtccag aagcatcaga tatagcgact agtgtcagaa atcttccaga attaaaagaca    360
gctgtgggaa gaggcagagc gtggctttat cttgcaactca tgcaaaagaa actggcagat    420
tatctgaaag tgcttataga caataaacat ctcttaagcg agttctatga gcctgaggct    480
ttaatgatgg aggaagaagg gatggtgatt gttggtctgc tgggtgggact caatgttctc    540
gatgccaatc tctggcttga aaggagaaga cttggattct caggttggag taatagattt    600
ttccctctac cttaaggatg tgcaggatct tgatgggtggc aaggagcatg aaagaattac    660
tgatgtcctt gatcaaaaaa attatgtgga agaacttaac cggcacttga gctgcacagt    720
tggggatctt caaaccaaga tagatggctt ggaaaagact aactcaaagc ttcaagaang    780
agtttcagct gcaacagacc gaatttgctc acttcaagaa gaacagcagc agttaagaga    840
acaaaatgaa ttaattcga

```

<210> 727

<211> 450

<212> DNA

<213> Homo sapiens

```

<400> 727
tttcgtcagt gtggggcctg gaccgctggg taggcgcgtc cagcggcctg agcaggggag    60
ggtaatgagg ctgttacgcg ccttctccgc atcttggcgg gagcctgacg ccccgttctt    120
tccctaacgg ggtgttccac cggcgcctgc cgaggcctag gcctccgcag ccgcctccg    180
tctctcagc cccgacgctg cggccgcttt gtgctcattt ttctctgggg aaactgaggc    240
tccgagtgcg aaagtccagc gaggtcgcgc cggccaggac agagaagggc tgggggtcgg    300
ctgagccgcg gcatcccgcg gcccgcctag ggtgcaggg tctcaggatg gcagcctcgg    360
cgcaggtgtc tgtgacctt gaggatgtgg ctgtgacatt caccagggag gagtggggag    420
agttggatgc agcccagaga acctgtatc

```

<210> 728

<211> 439

<212> DNA

<213> Homo sapiens

```

<400> 728
tttcgtgggt cgctttcctc accttcctcg ctgcgcgggc ggcggttggt aaccggtcag    60
accagcccga gagggacctg gtgcctgtac ccaggcttct gtcgctctgt cgctgcgct    120
atgccctgct gtagtcacag gagctgtaga gaggaccccg gtacatctga aagccgggaa    180

```

atggacccag	tgggtctttga	ggatgtggct	gtgaacttca	cccaggaaga	gtggacattg	240
ctggatattt	cccagaagaa	tctcttcagg	gaagtgatgc	tggaacttt	caggaacctg	300
acctctatag	gaaaaaaatg	gagtgaccag	aacattgaat	atgagtacca	aaaccccaga	360
agaagcttca	ggagtctcat	agaagagaaa	gtcaatgaaa	ttaaagaaga	cagtcattgt	420
ggagaaactt	ttaccagg					439

<210> 729
 <211> 236
 <212> DNA
 <213> Homo sapiens

<400> 729						
cggccgcgctc	gaccgacggt	agtgagggac	ccaatgtgag	tccccggcca	gctgaatcca	60
agccgtgtgt	actgcgtggg	cagcactgcc	cgacagtcc	agctaaactt	cgccaactcc	120
gctgcctttg	ccgtcaccat	gccacagaat	gaatatattg	aattacaccg	taaacgctat	180
ggattccggt	tggattacca	tgagaaaaag	agaaaagaagc	aaagtcgaga	ggctca	236

<210> 730
 <211> 807
 <212> DNA
 <213> Homo sapiens

<400> 730						
tgggaacaca	agttgacgct	ttttgtgttc	cttgagtcca	gtcgggaagg	gcccttgtga	60
ctgggtctca	tgccaaacaa	cttgttataa	taagagctag	gggtcccagac	catgcggaaa	120
cttcatgaga	atcctctgta	gtctggtgag	tgtagtgtcc	gactctggag	cccaggctgt	180
tgcttcccgg	tctggtggtg	aatcctccat	agtctggaga	tctcagccct	gctgagctga	240
tgatgctgac	tataggagat	gttattaaac	aactgattga	agcccacgag	caggggaaaag	300
acatcgatct	aaataagggtg	aaaaccaaga	cagctgcca	atatggcctt	tctgcccagc	360
ccgcctgggt	ggatatcatt	gctgccgtcc	ctcctcagta	tcgcaaggtc	ttgatgcca	420
agttaaaggc	gaaacccatc	agaactgcta	gtgggattgc	tgctgtggct	gtgatgtgca	480
aaccccacag	atgtccacac	atcagtttta	caggaaatat	atgtgtatac	tgccctgggtg	540
gacctgattc	tgattttgag	tattccaccc	agtcttacac	tggtatgag	ccaacctcca	600
tgagagctat	ccgtgccaga	tatgacctt	tcctacagac	aagacaccga	atagaacagt	660
taaaacaact	tggcatagat	gtggataaag	tggagtatat	tgagatgggt	ggaacgttta	720
tggcccttcc	agaagaatac	agagattatt	ttattcgaaa	tttacctgat	gccttatcag	780
gacatacttc	caacaatatt	tacgagg				807

<210> 731
 <211> 944
 <212> DNA
 <213> Homo sapiens

<400> 731

tttcgtgtga	ggggaggggc	gcgtgctaaa	ccagaagagg	taaaccaatg	cagtgagaga	60
gaggtgggtg	tgggctccac	agcttctgat	ttggaggaag	ctgcgagacc	gagagcctag	120
gagcaccttc	cacgcccagg	gctgtggtac	aggttggtgg	gggaggggcg	ccacgcggtg	180
tttggcagga	aggggaggcc	tctctactga	ccggaagctg	cgctagaaaa	agaaggagga	240
gactgcggcg	cagcagcgac	tagtgggagt	ccgatgtggg	agaggggctg	cggccaccgc	300
caccgcccgc	gcaccagga	aggcggagga	cgcaggagcc	aagagcaagg	gacgccgcca	360
cggtcattct	cgcctgcccc	gccgccctct	tagagacact	cattgcctat	ggatcatcct	420
ctcccagctt	ttgcaagcac	cgggctgctc	gcccgtgat	tttcctcctc	cataggctca	480
ctgcggaggc	aacggcgagg	tgtccgattt	gtgcacttga	ggcccgcgat	ccgggacggt	540
ggggaatctg	cgcctcctgg	ccgggcatga	agaccccggt	tggaaaggca	gctgcagggc	600
agcgggtccg	gacgggcgct	ggccacggca	gtgtgtctgt	taccatgata	aagaggaagg	660
ctgcacacaa	gaagcatagg	agccgaccca	cctcccagcc	tcgggggaac	atcgtaggct	720
gcataattca	gcacggatgg	aaagatggag	atgaacctct	aacacagtgg	aaaggaaccg	780
ttctggatca	gctcctttga	ataaacctgc	ccaccaccaa	gaaccatac	atgactttct	840
tttcattgta	tcaaacgaat	gtgtccaccg	gtgtgagcac	cagcaactca	cttcttcctc	900
agacatctct	aaagctggac	agaatatgag	ggacaatatc	gttt		944

<210> 732

<211> 761

<212> DNA

<213> Homo sapiens

<400> 732

ccgagacctc	ggtgtggccc	ttgaggcatt	tcaatgggcg	agggccggcg	actgtggatc	60
tggagctgga	cgcgtggag	gggaaggagt	tgatgcagga	cggcgcgctc	ctgagcgaca	120
gcaccgagga	cgaggaggag	ggggcgagcc	tgggcgacgg	cagcggggcg	gaaggcgga	180
gctgcagcag	cagcaggcgg	tcgggcggcg	atggcgggga	cgaagtggag	ggcagcgggtg	240
tgggagctgg	cgaaggagag	actgtccagc	acttcccgtc	cgcgcggccc	aagtctctaa	300
tgcagaagct	ccaatgctcc	ttccagacct	cctgggtcaa	ggactttccc	tggctgcgct	360
attccaagga	tactggtctt	atgtcttgcg	gctgggtgca	aaagaccctc	gcagatgggg	420
gaagcgtgga	ccttccccca	gtggggcatg	atgagctttc	gcgagggacc	cgcaactaca	480
agaaaacctt	cctcctgagg	caccacgtct	ctaccgagca	caaactccac	gaagccaacg	540
cccaggagtc	agaaatacca	tcagaggagg	ggtactgtga	ctttaatagt	aggccaaatg	600
agaactotta	ttgctatcaa	cttctgcgac	aactaaatga	acagagaaag	aaaggatttc	660
tttgtgatgt	cagcattgtg	gtaagcggaa	aaatcttcaa	agctcataag	aacatcctgg	720
ttgcaggcag	ccgtttcttt	aagactttat	attgcttttc	a		761

<210> 733

<211> 523

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(523)

<223> n = a,t,c or g

<400> 733

aattcccggg	tcgacgattt	cgtgcggggag	cagagatctg	cgggcgnttg	cagcttgceg	60
tagggaggcg	tgggtggtctg	aagcctccga	gcagccgcgg	ccatggcgga	tgtaaccgcc	120
cgtagtctgc	aatacgagta	caaggcgaac	tcgaatcttg	tgctccaagc	tgaccgttct	180
ctcattgacc	ggacccgccg	ggatgaaccc	acaggagagg	tgtgtccct	tggtgggaag	240
ctggagggca	cccgtatggg	agacaaggct	caacggacca	aaccgcagat	gcaggaggaa	300
agaagagcca	agcgaagaaa	gcgtgatgag	gaccggcatg	acatcaacaa	gatgaagggg	360
tatactctgc	tgtcggaggg	cattgatgag	atgggtgggca	tcactacaa	gccccaaact	420
aaagagactc	gggagacctc	tgaggtgcta	ctcagcttca	tccaggctgc	tcttggggac	480
cagccacgtg	atatcctttg	tggggcagct	gatgaagttc	tag		523

<210> 734

<211> 1341

<212> DNA

<213> Homo sapiens

<400> 734

tttttttttt	ttaaccagat	tatttcactt	attatattatt	ttatcttcca	atttcctctt	60
gccagactcc	catccaaaga	gtcataagca	gccttcttcc	cacttcttta	catgaaatac	120
atccccacct	gaacaaaggc	acacggacag	gaggaagggg	aataggactt	cgcaaaactg	180
gacacggcat	cgcttcagat	cttgactct	gaggttccgt	tggtactggt	ttcacagtta	240
caggcttcgg	atggtctgca	cgtgctgtt	caagactaat	ggtagtctct	attgcttctg	300
ttatgtcctt	atccaacctg	ttcagcctgt	cctctgactc	aaatatggag	taatcaatgg	360
tgaaatctgc	actaaagtca	tcataactgg	gggtgactgt	ataataatag	accacctgat	420
aatattcatc	ctctcccagt	ctttcttcat	cctcatattc	ttgtcccagg	ataagtggca	480
cagcaaagat	ggctacaaag	aggacatcca	ttctggattc	tgcaactattg	catcaccacc	540
cagagtggcc	tttctctctg	aggcttcac	agtctctttt	cgtcacagtg	gaaatgttct	600
gaggaagggg	tgagcatttt	tctagactga	aaagaatccc	tttcttctgt	ctgtctggag	660
cagccatggg	ggctgcggtg	tttttcggct	gcactttcgt	cgcttcggc	ccggccttcg	720
cgcttttctt	gatcactgtg	gctggggacc	cgcttcgct	tatcatcctg	gtcgcagggt	780
gagtagaggg	cccgggagac	gctgggagagc	gtcgaagaga	gaggtgcgga	aggggctgga	840
ggaactgggg	caagcctggg	agcctgaatt	ggggacgata	agtcggaggt	gaagtttggg	900
cggaggtgag	gggttgggtc	tgggagattt	gtcctttccc	gcagttggtt	tccaccttcc	960
aaggatctca	cagattcctc	ctatatctct	cccagcgacg	tcagagaagg	cccaaggccg	1020
agactcgtga	gggggctgtg	ctgacctagg	caggccgagt	caggtgcctt	aggggaggat	1080
ccaggaacgg	atacctcgcc	cttcctgtgt	cgcacactct	ggctgtcatc	gctctgaaga	1140
ctctttaatt	agattttctc	cctttccagt	gcgttcactt	ttctacagat	gagtctcctg	1200
gtggagacag	ttacctacc	tgggtccatgt	ctccctaacc	atccggaagg	ctaacttcca	1260
cttttcaagc	agctttgggt	ggtttccctc	cttgatttct	ctggctccca	ctactattgc	1320
ttgtctcact	gccccgtat	t				1341

<210> 735

<211> 703

<212> DNA

<213> Homo sapiens

<400> 735
 tttcgtgaga ggcccaggtg aggagcaagc gcccgcgcttc cggaagcccg ctcccggggc 60
 catgggggca caggtgaggc tgccgcccgg agagccctgc cgagaaggat atgtgctgtc 120
 tctggtctgt ccaaactcct ccaggtcttg gtgtgagatc acaaagtgtg cacagctgct 180
 ggcttctcct gtgctctaca cggacctgaa ttacagcata aacaacttga gcatttcagc 240
 aaatgtagaa aacaaataca gtctttatgt gggcttggta ctggcagtaa gctcaagtat 300
 ttttattggc tccagcttca tactgaaaaa gaagggcctc ttgcaactgg ccagcaaggg 360
 ctttactaga gctggacaag gtggacattc ttacctgaag gaatggctct ggtgggtagg 420
 attgctgtca atactgtcct ggaatgcaag ggaaaaagtt gacctttgaa atattacatt 480
 ttaaccacag acttcttgta ttttcttcac cataacaata gagaaaagta cttttctttc 540
 atattttccc acctccta attgacaact attgtagctg catattttct caagaaagag 600
 tacagtttcc ttgccaggac aacacggata agtgaaaggc ttctgtggct gcttggtact 660
 gaacaaatgg agaagaaatg aagggtgtca gcactctcct tcc 703

<210> 736
 <211> 401
 <212> DNA
 <213> Homo sapiens

<400> 736
 tttcgtctgg cgtggacgtt tgtggtgggg cgtgttggtc cgcgctctca gaactgtgct 60
 gggaaggatg gtagggcgac tggggctcac ctccgcaccg ttgtaggacc cggggtaggg 120
 ttttgagccc gtgggagctg cccacgcgg cctcgtcctg ccaacggctg gatggcgag 180
 acgaaggacg cagcgcagat gttggtgacc ttcaaggatg tggctgtgac ctttaccgg 240
 gaggagtggg gacagctgga cctggcccag aggacctgt accgagaggt gatgctggag 300
 acctgtgggc ttctggtttc actagggcat cgggttccca aaccagagtt ggtccacctg 360
 ctaaagcatg ggcaggagct gtggatagtg aagagaggcc t 401

<210> 737
 <211> 933
 <212> DNA
 <213> Homo sapiens

<400> 737
 agcggcgcgt cgcccggtgt gtgtgtcccc ggtgtcaccc agcgtgttgt gtgtccgtgc 60
 ggcgcggcgc tcgtgtggct cctcgcgcc caccacgctg gccccggggc cccggtcgc 120
 ccttcccagg cgccggctgc agcagagttt cagaacaagc ttcctggaac ccatgacca 180
 tgaagtcttg tcgacattta taccgtctga gggtagcagc tcgaaagtag aagaaagtgt 240
 tgccaggggc ggcagtatct ctttgtgtga ccttggcggc ttatgggacg ttggcttcag 300
 acctttgtga tacaccatgc tgcgtgggac gatgacggcg tggagaggaa tgaggcctga 360
 ggtcacactg gcttgccctc tcctagccac agcaggctgc tttgtgact tgaacgaggt 420
 ccctcaggtc accgtccagc ctgcgtccac cgtccagaag cccggaggca ctgtgatctt 480
 gggctgcgtg gtggaacctc caaggatgaa tgtaacctgg cgctgaatg gaaaggagct 540
 gaatggctcg gatgatgtc tgggtgtcct catcacccac gggaccctcg tcatcactgc 600
 ccttaacaac cacactgtgg gacggtacca gtgtgtggcc cggatgctg cgggggctgt 660
 ggccagcgtg ccagccactg tgacactagc cagtgaagtct gctcctttgc ctccctgcca 720
 tggtgcggtc cctcctcatc tctcccaccc tgaagccccc accattcatg ctgcctcttg 780

ttactcttag	cataaaatgg	gccttaactg	cagaaatgtc	aaatcagaac	agtagctgcc	840
ttagtaatgc	ccagtgatgg	gggacccctt	gtgcccttgg	aaaacctcac	tccaagtaga	900
ggctgtatct	ggagtgaagt	tctacagaga	ggg			933

<210> 738
 <211> 420
 <212> DNA
 <213> Homo sapiens

<400> 738						
ctgggggtcgg	cggagacagc	tgggtgtctga	agccgctcgc	gcccaggggtg	accctgtttg	60
cagcacgatg	tctgaagaag	aggcggctca	gatccccaga	tccagtgtgt	gggagcagga	120
ccagcagaac	gtgggtgcagc	gtgtgggtggc	tctgcccttg	gtcagggcca	cgtgcaccgc	180
ggtctgcgat	gtttacagtg	cagccaagga	caggcacccg	ctgctgggct	ccgcctgcgc	240
cctggctgag	aactgcgtgt	gcggcctgac	caccctgtgc	ctggaccacg	cccagccgct	300
gctcgagcac	ctgcagcccc	agctggccac	tatgaacagc	ctcgccctgca	ggggcctgga	360
caagctggaa	gagaagcttc	cctttctcca	gcaaccttcg	gagacggtgg	tgacctcagc	420

<210> 739
 <211> 1248
 <212> DNA
 <213> Homo sapiens

<400> 739						
tttcgtagcg	agtaaagaag	cagatttgc	ctccctcccg	cttcctccct	cccatcttcc	60
caccggggt	gtgcccaggc	cacagagcag	ctgcaggcct	tgggagagga	cccacacagc	120
ctcctgtagg	tggcaacagt	gccacctgtt	tgactcatag	ggctgaaccg	aggactgaaa	180
aaggaggag	gcagaccact	cggagaggag	ctgggaagca	gtgcagagag	gagagcggag	240
cggagctgcc	gctgagcaaa	ggccttcacc	atggccgagt	ccccgggctg	ctgctccgtc	300
tgggcccgct	gcctccactg	cctgtatagc	tgccactgga	ggaaatgccc	cagagagagg	360
atgcaacca	gcaagtgcga	ctgtatctgg	tttggcctgc	tcttctccac	cttcctccct	420
tccctgagct	ggctgtacat	cgggctcgtc	cttctcaatg	acctgcacaa	cttcaatgaa	480
ttcctcttcc	gcccgtgggg	acactggatg	gactgggtccc	tggcattcct	gctggtcac	540
tctctactgg	gcacatatgc	atccttgcta	ttggctcctg	cctgtctcct	gcggctttgt	600
agacagcccc	tgcatctgca	cagcctccac	aagggtgctgc	tgctcctcat	tatgctgctt	660
gtggcggtcg	gccttgtggg	actggacatc	caatggcagc	aggagaggca	tagcttgctg	720
gtgtcactgc	agactgcagg	tagctctgaa	ctccagcagt	caggccctaa	gaggaaagcg	780
gggaggggca	ctggagaaga	gcccaacctca	ccagctcttg	tccacaggcc	acagcccat	840
tccttcatat	tggagcagcc	gctggaattg	ccctcctggc	ctggcctgtg	gctgatacct	900
tctaccgtat	ccaccgaaga	gagcccaaga	ttctgctact	gctcctattt	tttggagtgt	960
tcctggtcac	ctacttggcc	cccctatgca	tctcctcacc	ctgcatcatg	gaaccagag	1020
acttaccacc	caagcctggg	ctgggtgggac	accgaggggc	ccccatgctg	gctcccagaga	1080
acacctgat	gtccttgctg	aagacagctg	aatgcggagc	tactgtgttt	gagactgatg	1140
tgatggtcag	ctccgatggg	gtccccttcc	tcatgcatga	tgagcacctc	agcaggacca	1200
cgaatgtagc	ctctgtattc	ccaaccgaa	tcacagccca	cagcagtg		1248

<210> 740
 <211> 185
 <212>Amino acid
 <213> Homo sapiens

<400> 740
 Phe Val Gly Arg Leu Leu Arg Leu Gly Glu Ala Leu Arg Leu Arg Pro
 1 5 10 15
 Asp Pro Ser Gly Gly Cys Arg Leu Gln Pro Ala Leu Val Gly Glu Thr
 20 25 30
 Glu Met Ser Glu Lys Glu Asn Asn Phe Pro Pro Leu Pro Lys Phe Ile
 35 40 45
 Pro Val Lys Pro Cys Phe Tyr Gln Asn Phe Ser Asp Glu Ile Pro Val
 50 55 60
 Glu His Gln Val Leu Val Lys Arg Ile Tyr Arg Leu Trp Met Phe Tyr
 65 70 75 80
 Cys Ala Thr Leu Gly Val Asn Leu Ile Ala Cys Leu Ala Trp Trp Ile
 85 90 95
 Gly Gly Gly Ser Gly Thr Asn Phe Gly Leu Ala Phe Val Trp Leu Leu
 100 105 110
 Leu Phe Thr Pro Cys Gly Tyr Val Cys Trp Phe Arg Pro Val Tyr Lys
 115 120 125
 Ala Phe Arg Ala Asp Ser Ser Phe Asn Phe Met Ala Phe Phe Phe Ile
 130 135 140
 Phe Arg Ser Pro Val Cys Pro Asp Arg His Pro Gly Asp Trp Leu Leu
 145 150 155 160
 Arg Leu Gly Arg Val Arg Leu Ala Val Gly Asn Trp Ile Leu Pro Val
 165 170 175
 Gln Pro Gly Arg Cys Arg Gly His Ala
 180 185

<210> 741
 <211> 177
 <212>Amino acid
 <213> Homo sapiens

<400> 741
 Phe Leu Gly Ala Gly Ala Asp Ile Phe Cys Ala Tyr Leu Arg Met Ser
 1 5 10 15
 Ser Lys Gln Ala Thr Ser Pro Phe Ala Cys Ala Ala Asp Gly Glu Asp
 20 25 30
 Ala Met Thr Gln Asp Leu Thr Ser Arg Glu Lys Glu Glu Gly Ser Asp
 35 40 45
 Gln His Val Ala Ser His Leu Pro Leu His Pro Ile Met His Asn Lys
 50 55 60
 Pro His Ser Glu Glu Leu Pro Thr Leu Val Ser Thr Ile Gln Gln Asp
 65 70 75 80
 Ala Asp Trp Asp Ser Val Leu Ser Ser Gln Gln Arg Met Glu Ser Glu
 85 90 95
 Asn Asn Lys Leu Cys Ser Leu Tyr Ser Phe Arg Asn Thr Ser Thr Ser
 100 105 110
 Pro His Lys Pro Asp Glu Gly Ser Arg Asp Arg Glu Ile Met Thr Ser
 115 120 125

Val Thr Phe Gly Thr Pro Glu Arg Arg Lys Gly Ser Leu Ala Asp Val
 130 135 140
 Val Asp Thr Leu Lys Gln Lys Lys Leu Glu Glu Met Thr Arg Thr Glu
 145 150 155 160
 Gln Glu Asp Ser Ser Cys Met Glu Lys Leu Leu Ser Lys Asp Trp Lys
 165 170 175
 Glu
 177

<210> 742
 <211> 434
 <212> Amino acid
 <213> Homo sapiens

<400> 742
 Glu Gly Tyr Leu Thr Gly Arg Pro Thr Arg Pro Val Ala Val Arg Gly
 1 5 10 15
 Lys Ser Thr Ala Asp Leu Arg Met Met Gly Arg Ser Pro Gly Phe Ala
 20 25 30
 Met Gln His Ile Val Gly Val Pro His Val Leu Val Arg Arg Gly Leu
 35 40 45
 Leu Gly Arg Asp Leu Phe Met Thr Arg Thr Leu Cys Ser Pro Gly Pro
 50 55 60
 Ser Gln Pro Gly Glu Lys Arg Pro Glu Glu Val Ala Leu Gly Leu His
 65 70 75 80
 His Arg Leu Pro Ala Leu Gly Arg Ala Leu Gly His Ser Ile Gln Gln
 85 90 95
 Arg Ala Thr Ser Thr Ala Lys Thr Trp Trp Asp Arg Tyr Glu Glu Phe
 100 105 110
 Val Gly Leu Asn Glu Val Arg Glu Ala Gln Gly Lys Val Thr Glu Ala
 115 120 125
 Glu Lys Val Phe Met Val Ala Arg Gly Leu Val Arg Glu Ala Arg Glu
 130 135 140
 Asp Leu Glu Val His Gln Ala Lys Leu Lys Glu Val Arg Asp Arg Leu
 145 150 155 160
 Asp Arg Val Ser Arg Glu Asp Ser Gln Tyr Leu Glu Leu Ala Thr Leu
 165 170 175
 Glu His Arg Met Leu Gln Glu Glu Lys Arg Leu Arg Thr Ala Tyr Leu
 180 185 190
 Arg Ala Glu Asp Ser Glu Arg Glu Lys Phe Ser Leu Phe Ser Ala Ala
 195 200 205
 Val Arg Glu Ser His Glu Lys Glu Arg Thr Arg Ala Glu Arg Thr Lys
 210 215 220
 Asn Trp Ser Leu Ile Gly Ser Val Leu Gly Ala Leu Ile Gly Val Ala
 225 230 235 240
 Gly Ser Thr Tyr Val Asn Arg Val Arg Leu Gln Glu Leu Lys Ala Leu
 245 250 255
 Leu Leu Glu Ala Gln Lys Gly Pro Val Ser Leu Gln Glu Ala Ile Arg
 260 265 270
 Glu Gln Ala Ser Ser Tyr Ser Arg Gln Gln Arg Asp Leu His Asn Leu
 275 280 285
 Met Val Asp Leu Arg Gly Leu Val His Ala Ala Gly Pro Gly Gln Asp
 290 295 300
 Ser Gly Ser Gln Ala Gly Ser Pro Pro Thr Arg Asp Arg Asp Val Asp
 305 310 315 320
 Val Leu Ser Ala Ala Leu Lys Glu Gln Leu Ser His Ser Arg Gln Val
 325 330 335
 His Ser Cys Leu Glu Gly Leu Arg Glu Gln Leu Asp Gly Leu Glu Lys
 340 345 350

```

Thr Cys Ser Gln Met Ala Gly Val Val Gln Leu Val Lys Ser Ala Ala
    355                      360          365
His Pro Gly Leu Val Glu Pro Ala Asp Gly Ala Met Pro Ser Phe Leu
    370                      375          380
Leu Glu Gln Gly Ser Met Ile Leu Ala Leu Ser Asp Thr Glu Gln Arg
    385                      390          395          400
Leu Glu Ala Gln Val Asn Arg Asn Thr Ile Tyr Ser Thr Leu Val Thr
    405                      410          415
Cys Val Thr Phe Val Ala Thr Leu Pro Val Leu Tyr Met Leu Phe Lys
    420                      425          430
Ala Ser
    434

```

```

<210> 743
<211> 211
<212>Amino acid
<213> Homo sapiens

```

```

<400> 743
Asn Leu Pro Pro Leu Thr Pro Gln Pro Gly Pro Arg Leu Ala Gly Ser
  1                      5                      10          15
Gly Pro Ser His Trp Phe Ser Pro Leu Ser Leu Pro Val Ala Ser Lys
    20                      25          30
Ala Pro Gly Thr Met Ala Gln Ala Leu Gly Glu Asp Leu Val Gln Pro
    35                      40          45
Pro Glu Leu Gln Asp Asp Ser Ser Ser Leu Gly Ser Asp Ser Glu Leu
    50                      55          60
Ser Gly Pro Gly Pro Tyr Arg Gln Ala Asp Arg Tyr Gly Phe Ile Gly
    65                      70          75          80
Gly Ser Ser Ala Glu Pro Gly Pro Gly His Pro Pro Ala Asp Leu Ile
    85                      90          95
Arg Gln Arg Glu Met Lys Trp Val Glu Met Thr Ser His Trp Glu Lys
    100                     105          110
Thr Met Ser Arg Arg Tyr Lys Lys Val Lys Met Gln Cys Arg Lys Gly
    115                     120          125
Ile Pro Ser Ala Leu Arg Ala Arg Cys Trp Pro Leu Leu Cys Gly Ala
    130                     135          140
His Val Cys Gln Lys Asn Ser Pro Gly Thr Tyr Gln Glu Leu Ala Glu
    145                     150          155          160
Ala Pro Gly Asp Pro Gln Trp Met Glu Thr Ile Gly Arg Asp Leu His
    165                     170          175
Arg Gln Phe Pro Leu His Glu Met Phe Val Ser Pro Gln Gly His Gly
    180                     185          190
Gln Gln Gly Leu Leu Gln Val Leu Lys Ala Tyr Thr Leu Tyr Arg Pro
    195                     200          205
Glu Gln Gly
    210 211

```

```

<210> 744
<211> 55
<212>Amino acid
<213> Homo sapiens

```

```

<400> 744

```

```

Leu Arg Gly Met Ala Ala Ala Ala Ala Gly Pro Ala Ala Ser Gln Arg
 1          5          10          15
Phe Phe Gln Ser Phe Ser Asp Ala Leu Ile Asp Gln Asp Pro Gln Ala
          20          25          30
Ala Leu Glu Val Gly Glu Pro Phe Leu Leu Pro Pro Leu Pro Ala Asp
          35          40          45
Pro Pro Pro Ser Ser Thr Ala
          50          55

```

```

<210> 745
<211> 182
<212>Amino acid
<213> Homo sapiens

```

```

<400> 745
Trp Ala Cys Phe Arg Ser Ala His Cys Ser Arg His Leu Arg Asn Arg
 1          5          10          15
Ile Phe Met Tyr Leu Tyr Trp Asp Lys Thr Arg Ser Pro Val Cys Lys
          20          25          30
Gly Pro Ala Leu Arg Glu Glu Arg Pro Gln Pro Arg Leu Lys Leu Glu
          35          40          45
Asp Tyr Lys Asp Arg Leu Lys Ser Gly Glu His Leu Asn Pro Asp Gln
          50          55          60
Leu Glu Ala Val Glu Lys Tyr Glu Glu Val Leu His Asn Leu Glu Phe
          65          70          75          80
Ala Lys Glu Leu Gln Lys Thr Phe Ser Gly Leu Ser Leu Asp Leu Leu
          85          90          95
Lys Ala Gln Lys Lys Ala Gln Arg Arg Glu His Met Leu Lys Leu Glu
          100          105          110
Ala Glu Lys Lys Lys Leu Arg Thr Ile Leu Gln Val Gln Tyr Val Leu
          115          120          125
Gln Asn Leu Thr Gln Glu His Val Gln Lys Asp Phe Lys Gly Gly Leu
          130          135          140
Asn Gly Ala Val Tyr Leu Pro Ser Lys Glu Leu Asp Tyr Leu Ile Lys
          145          150          155          160
Phe Ser Lys Leu Thr Cys Pro Glu Arg Asn Glu Ser Leu Arg Gln Thr
          165          170          175
Leu Glu Gly Ser Thr Val
          180          182

```

```

<210> 746
<211> 136
<212>Amino acid
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(136)
<223> X = any amino acid or stop code

```

```

<400> 746
Xaa Ala Gly Val Gln Met Lys Leu Glu Phe Leu Gln Arg Lys Phe Trp
 1          5          10          15
Ala Ala Thr Arg Gln Cys Ser Thr Val Asp Gly Pro Cys Thr Gln Ser

```

```

      20      25      30
Cys Glu Asp Ser Asp Leu Asp Cys Phe Val Ile Asp Asn Asn Gly Phe
      35      40      45
Ile Leu Ile Ser Lys Arg Ser Arg Glu Thr Gly Arg Phe Leu Gly Glu
      50      55      60
Val Asp Gly Ala Val Leu Thr Gln Leu Leu Ser Met Gly Val Phe Ser
      65      70      75      80
Gln Val Thr Met Tyr Asp Tyr Gln Ala Met Cys Lys Pro Ser Ser His
      85      90      95
His His Ser Ala Gln Pro Leu Val Ser Pro Ile Ser Ala Phe Leu
      100      105      110
Thr Ala Thr Arg Trp Leu Leu Gln Glu Leu Val Leu Phe Leu Leu Glu
      115      120      125
Trp Ser Val Trp Gly Ser Xaa *
      130      135

```

<210> 747
 <211> 156
 <212> Amino acid
 <213> Homo sapiens

```

      <400> 747
Cys Arg Gly Arg Leu Ala Gln Leu Glu Glu Ala Ala Val Ala Ala Thr
      1      5      10      15
Met Ser Ala Gly Asp Ala Val Cys Thr Gly Trp Leu Val Lys Ser Pro
      20      25      30
Pro Glu Arg Lys Leu Gln Arg Tyr Ala Trp Arg Lys Arg Trp Phe Val
      35      40      45
Leu Arg Arg Gly Arg Met Ser Gly Asn Pro Asp Val Leu Glu Tyr Tyr
      50      55      60
Arg Asn Lys His Ser Ser Lys Pro Ile Arg Val Ile Asp Leu Ser Glu
      65      70      75      80
Cys Ala Val Trp Lys His Val Gly Pro Ser Phe Val Arg Lys Glu Phe
      85      90      95
Gln Asn Asn Phe Val Phe Ile Val Lys Thr Thr Ser Arg Thr Phe Tyr
      100      105      110
Leu Val Ala Lys Thr Glu Gln Glu Met Gln Val Trp Val His Ser Ile
      115      120      125
Ser Gln Val Cys Asn Leu Gly His Leu Glu Asp Gly Ala Ala Asp Ser
      130      135      140
Met Glu Ser Leu Ser Tyr Thr Arg Ser Tyr Leu Gln
      145      150      155 156

```

<210> 748
 <211> 55
 <212> Amino acid
 <213> Homo sapiens

```

      <400> 748
Ile Pro Ala Val Pro Leu Thr Ser Cys Val Thr Val Gly Ser Tyr Ser
      1      5      10      15
Leu Ser Val Arg Asp Tyr Asp Pro Arg Gln Gly Asp Thr Val Lys His
      20      25      30
Tyr Lys Ile Arg Thr Leu Asp Lys Arg Gly Phe Tyr Ile Ser Pro Arg

```

35 40 45
 Ser Thr Phe Ser Thr Leu Gln
 50 55

<210> 749
 <211> 381
 <212> Amino acid
 <213> Homo sapiens

<400> 749
 Lys Asp Ser Val Leu Asn Ile Ala Arg Gly Lys Lys Tyr Gly Glu Lys
 1 5 10 15
 Thr Lys Arg Val Ser Ser Arg Lys Lys Pro Ala Leu Lys Cys Thr Ser
 20 25 30
 Gln Lys Gln Pro Ala Leu Lys Ala Ile Cys Asp Lys Glu Asp Ser Val
 35 40 45
 Pro Asn Thr Ala Thr Glu Lys Lys Asp Glu Gln Ile Ser Gly Thr Val
 50 55 60
 Ser Ser Gln Lys Gln Pro Ala Leu Lys Ala Thr Ser Asp Lys Lys Asp
 65 70 75 80
 Ser Val Ser Asn Ile Pro Thr Glu Ile Lys Asp Gly Gln Gln Ser Gly
 85 90 95
 Thr Val Ser Ser Gln Lys Gln Pro Ala Trp Lys Ala Thr Ser Val Lys
 100 105 110
 Lys Asp Ser Val Ser Asn Ile Ala Thr Glu Ile Lys Asp Gly Gln Ile
 115 120 125
 Arg Gly Thr Val Ser Ser Gln Arg Gln Pro Ala Leu Lys Ala Thr Gly
 130 135 140
 Asp Glu Lys Asp Ser Val Ser Asn Ile Ala Arg Glu Ile Lys Asp Gly
 145 150 155 160
 Glu Lys Ser Gly Thr Val Ser Pro Gln Lys Gln Ser Ala Gln Lys Val
 165 170 175
 Ile Phe Lys Lys Lys Val Ser Leu Leu Asn Ile Ala Thr Arg Ile Thr
 180 185 190
 Gly Gly Trp Lys Ser Gly Thr Glu Tyr Pro Glu Asn Leu Pro Thr Leu
 195 200 205
 Lys Ala Thr Ile Glu Asn Lys Asn Ser Val Leu Asn Thr Ala Thr Lys
 210 215 220
 Met Lys Asp Val Gln Thr Ser Thr Pro Glu Gln Asp Leu Glu Met Ala
 225 230 235 240
 Ser Glu Gly Glu Gln Lys Arg Leu Glu Glu Tyr Glu Asn Asn Gln Pro
 245 250 255
 Gln Val Lys Asn Gln Ile His Ser Arg Asp Asp Leu Asp Asp Ile Ile
 260 265 270
 Gln Ser Ser Gln Thr Val Ser Glu Asp Gly Asp Ser Leu Cys Cys Asn
 275 280 285
 Cys Lys Asn Val Ile Leu Leu Ile Asp Gln His Glu Met Lys Cys Lys
 290 295 300
 Asp Cys Val His Leu Leu Lys Ile Lys Lys Thr Phe Cys Leu Cys Lys
 305 310 315 320
 Arg Leu Thr Glu Leu Lys Asp Asn His Cys Glu Gln Leu Arg Val Lys
 325 330 335
 Ile Arg Lys Leu Lys Asn Lys Ala Ser Val Leu Gln Lys Arg Leu Ser
 340 345 350
 Glu Lys Glu Glu Ile Lys Ser Gln Leu Lys His Glu Thr Leu Glu Leu
 355 360 365
 Glu Lys Glu Leu Cys Ser Leu Arg Phe Ala Ile Gln Gln
 370 375 380 381

<210> 750
 <211> 296
 <212>Amino acid
 <213> Homo sapiens

<400> 750
 Ser Pro Leu Arg Tyr Arg Ala Gly Gln Ser Gly Ser Thr Ile Ser Ser
 1 5 10 15
 Ser Ser Cys Ala Met Trp Arg Cys Gly Gly Arg Gln Gly Leu Cys Val
 20 25 30
 Leu Arg Arg Leu Ser Gly Gly His Ala His Arg Ala Trp Arg Trp
 35 40 45
 Asn Ser Asn Arg Ala Cys Glu Arg Ala Leu Gln Tyr Lys Leu Gly Asp
 50 55 60
 Lys Ile His Gly Phe Thr Val Asn Gln Val Thr Ser Val Pro Glu Leu
 65 70 75 80
 Phe Leu Thr Ala Val Lys Leu Thr His Asp Asp Thr Gly Ala Arg Tyr
 85 90 95
 Leu His Leu Ala Arg Glu Asp Thr Asn Asn Leu Phe Ser Val Gln Phe
 100 105 110
 Arg Thr Thr Pro Met Asp Ser Thr Gly Val Pro His Ile Leu Glu His
 115 120 125
 Thr Val Leu Cys Gly Ser Gln Lys Tyr Pro Cys Arg Asp Pro Phe Phe
 130 135 140
 Lys Met Leu Asn Arg Ser Leu Ser Thr Phe Met Asn Ala Phe Thr Ala
 145 150 155 160
 Ser Asp Tyr Thr Leu Tyr Pro Phe Ser Thr Gln Asn Pro Lys Asp Phe
 165 170 175
 Gln Asn Leu Leu Ser Val Tyr Leu Asp Ala Thr Phe Phe Pro Cys Leu
 180 185 190
 Arg Glu Leu Asp Phe Trp Gln Glu Gly Trp Arg Leu Glu His Glu Asn
 195 200 205
 Pro Ser Asp Pro Gln Thr Pro Leu Val Phe Lys Gly Val Val Phe Asn
 210 215 220
 Glu Met Lys Gly Ala Phe Thr Asp Asn Glu Arg Ile Phe Ser Gln His
 225 230 235 240
 Leu Gln Asn Arg Leu Leu Pro Asp His Thr Tyr Ser Val Val Ser Gly
 245 250 255
 Gly Asp Pro Leu Cys Ile Pro Glu Leu Thr Trp Glu Gln Leu Lys Gln
 260 265 270
 Phe His Ala Thr His Tyr His Pro Ser Asn Ala Arg Phe Phe Thr Tyr
 275 280 285
 Gly Asn Phe Pro Leu Asp Gln His
 290 295 296

<210> 751
 <211> 163
 <212>Amino acid
 <213> Homo sapiens

<400> 751
 Arg Gly Ala Lys Ala Lys Ser Ala Val Leu Pro Pro Gly Pro Pro Cys
 1 5 10 15
 Ser Ser Ile Leu Ile Leu Ser Pro Pro Ala Pro Leu Thr Pro Arg Ser

```

      20      25      30
Pro Gly Thr Glu Ala Thr Arg Pro Thr Ala Met Ser Lys Ser Leu Lys
      35      40      45
Lys Lys Ser His Trp Thr Ser Lys Val His Glu Ser Val Ile Gly Arg
      50      55      60
Asn Pro Glu Gly Gln Leu Gly Phe Glu Leu Lys Gly Gly Ala Glu Asn
      65      70      75      80
Gly Gln Phe Pro Tyr Leu Gly Glu Val Lys Pro Gly Lys Val Ala Tyr
      85      90      95
Glu Ser Gly Ser Lys Leu Val Ser Glu Glu Leu Leu Leu Glu Val Asn
      100      105      110
Glu Thr Pro Val Ala Gly Leu Thr Ile Arg Asp Val Leu Ala Val Ile
      115      120      125
Lys His Cys Lys Asp Pro Leu Arg Leu Lys Cys Val Lys Gln Gly Glu
      130      135      140
Ser Ser Gly Leu Leu Ser Val Leu Pro Gly Gly Thr Ala Arg Gly
      145      150      155      160
Ala Gly Gln
      163

```

<210> 752
 <211> 99
 <212> Amino acid
 <213> Homo sapiens

```

      <400> 752
Ser His Arg Pro Gln Pro Asp Ala Trp Arg Gln Gly Asn Ala Phe Gln
      1      5      10      15
Cys Val Gln Lys Glu Lys Met Gln Val Ser Ser Ala Glu Val Arg Ile
      20      25      30
Gly Pro Met Arg Leu Thr Gln Asp Pro Ile Gln Val Leu Leu Ile Phe
      35      40      45
Ala Lys Glu Asp Ser Gln Ser Asp Gly Phe Trp Trp Ala Cys Asp Arg
      50      55      60
Ala Gly Tyr Arg Cys Asn Ile Ala Arg Thr Pro Glu Ser Ala Leu Glu
      65      70      75      80
Cys Phe Leu Asp Lys His His Glu Ile Ile Val Ile Asp His Arg Gln
      85      90      95
Thr Gln Asn
      99

```

<210> 753
 <211> 193
 <212> Amino acid
 <213> Homo sapiens

```

      <400> 753
Phe Arg Leu Ala Gly Cys Gly His Leu Leu Val Ser Leu Leu Gly Leu
      1      5      10      15
Leu Leu Leu Leu Ala Arg Ser Gly Thr Arg Ala Leu Val Cys Leu Pro
      20      25      30
Cys Asp Glu Ser Lys Cys Glu Glu Pro Arg Asn Cys Pro Gly Ser Ile
      35      40      45
Val Gln Gly Val Cys Gly Cys Cys Tyr Thr Cys Ala Ser Gln Arg Asn

```

```

      50      55      60
Glu Ser Cys Gly Gly Thr Phe Gly Ile Tyr Gly Thr Cys Asp Arg Gly
65      70      75      80
Leu Arg Cys Val Ile Arg Pro Pro Leu Asn Gly Asp Ser Leu Thr Glu
      85      90      95
Tyr Glu Ala Gly Val Cys Glu Asp Glu Asn Trp Thr Asp Asp Gln Leu
100      105      110
Leu Gly Phe Lys Pro Cys Asn Glu Asn Leu Ile Ala Gly Cys Asn Ile
115      120      125
Ile Asn Gly Lys Cys Glu Cys Asn Thr Ile Arg Thr Cys Ser Asn Pro
130      135      140
Phe Glu Phe Pro Ser Gln Asp Met Cys Leu Ser Ala Leu Lys Arg Ile
145      150      155      160
Glu Glu Glu Lys Pro Asp Cys Ser Lys Ala Arg Cys Glu Val Gln Phe
165      170      175
Ser Pro Arg Cys Pro Glu Asp Ser Val Leu Ile Glu Gly Tyr Ala Pro
180      185      190
Pro
193

```

```

<210> 754
<211> 73
<212>Amino acid
<213> Homo sapiens

```

```

<400> 754
Phe Arg Met Ala Ala Asn Val Gly Ser Met Phe Gln Tyr Trp Lys Arg
1      5      10      15
Phe Asp Leu Gln Gln Leu Gln Arg Glu Leu Asp Ala Thr Ala Thr Val
20      25      30
Leu Ala Asn Arg Gln Asp Glu Ser Glu Gln Ser Arg Lys Arg Leu Ile
35      40      45
Glu Gln Ser Arg Glu Phe Lys Lys Asn Thr Pro Glu Val Arg Arg Val
50      55      60
Thr Ile Val Phe Ala Leu Lys Gly Ser
65      70      73

```

```

<210> 755
<211> 83
<212>Amino acid
<213> Homo sapiens

```

```

<400> 755
Glu Thr Leu Ser Cys Arg Ile Met Asp His Pro Ser Arg Glu Lys Asp
1      5      10      15
Glu Arg Gln Arg Thr Thr Lys Pro Met Ala Gln Arg Ser Ala His Cys
20      25      30
Ser Arg Pro Ser Gly Ser Ser Ser Ser Ser Gly Val Leu Met Val Gly
35      40      45
Pro Asn Phe Arg Val Gly Lys Lys Ile Gly Cys Gly Asn Phe Gly Glu
50      55      60
Leu Arg Leu Gly Glu Gly Leu Pro Gln Val Tyr Tyr Phe Gly Pro Cys
65      70      75      80
Gly Lys Tyr

```

83

<210> 756
 <211> 100
 <212>Amino acid
 <213> Homo sapiens

 <220>
 <221> misc_feature
 <222> (1)...(100)
 <223> X = any amino acid or stop code

<400> 756
 Gly Cys Cys Lys Asp Xaa His Ser Gly Val Ile Gly Arg Ser Trp Ala
 1 5 10 15
 Met Leu Phe Ala Ser Gly Gly Phe Gln Val Lys Leu Tyr Asp Ile Glu
 20 25 30
 Gln Gln Gln Ile Arg Asn Ala Leu Glu Asn Ile Arg Trp Ala Ser Arg
 35 40 45
 Arg Ser Pro Glu Gly Met Glu Val Gly Leu Phe Leu Ser Val Gly Leu
 50 55 60
 Val Cys His Ile Leu Lys Ala Met Arg Ile Cys Asp Val Thr Phe Ser
 65 70 75 80
 Ser Asp Gly Tyr Cys Ser Ala Ser Glu Leu Val Lys Ala Arg Pro Thr
 85 90 95
 Val Ala Gly Met
 100

<210> 757
 <211> 130
 <212>Amino acid
 <213> Homo sapiens

<400> 757
 Asn Ser Arg Val Asp Asp Phe Val Ser Ala Arg Pro Lys Pro Arg Pro
 1 5 10 15
 Leu Pro Arg Ala Arg Gly Met Val Val Val Thr Gly Arg Glu Pro Asp
 20 25 30
 Ser Arg Arg Gln Asp Gly Ala Met Ser Ser Ser Asp Ala Glu Asp Asp
 35 40 45
 Phe Leu Glu Pro Ala Thr Pro Thr Ala Thr Gln Ala Gly His Ala Leu
 50 55 60
 Pro Pro Ala Ala Thr Gly Ser Phe Leu Arg Leu Phe Pro Leu Thr Ser
 65 70 75 80
 Glu Gly Leu Thr Ser Leu His Ala Cys Pro His Cys Gly Ala Thr Lys
 85 90 95
 Thr Pro Cys Trp Gln Pro Cys Ser Val Gly Gly Thr Thr Ser Pro Arg
 100 105 110
 Thr Pro Arg Ala Gly Thr Ser Ser Thr Glu Met Ala His Thr Leu Glu
 115 120 125
 Met Cys
 130

<210> 758
 <211> 121
 <212> Amino acid
 <213> Homo sapiens

<400> 758
 Arg Ala Leu Trp Val Gly Gly Cys Ser Gly Glu Ala Cys Gly Ile Gly
 1 5 10 15
 Met Ser Gly Leu Leu Thr Asp Pro Glu Gln Arg Ala Gln Glu Pro Arg
 20 25 30
 Tyr Pro Gly Phe Val Leu Gly Leu Asp Val Gly Ser Ser Val Ile Arg
 35 40 45
 Cys His Val Tyr Asp Arg Ala Ala Arg Val Cys Gly Ser Ser Val Gln
 50 55 60
 Lys Val Glu Asn Leu Tyr Pro Gln Ile Gly Trp Val Glu Ile Asp Pro
 65 70 75 80
 Asp Val Leu Trp Ile Gln Phe Val Ala Val Ile Lys Glu Ala Val Lys
 85 90 95
 Ala Ala Gly Ile Gln Met Asn Gln Ile Val Gly Leu Gly Ile Ser Thr
 100 105 110
 Gln Arg Ala Thr Phe Ile Thr Trp Asn
 115 120 121

<210> 759
 <211> 210
 <212> Amino acid
 <213> Homo sapiens

<400> 759
 Gly Leu Ala Ala Glu Gln Ser Met Gln Phe Val Lys Leu Trp Cys Gly
 1 5 10 15
 Cys Ser Gly Glu Phe Pro Thr Arg Leu Arg Arg Arg Thr Pro Leu Thr
 20 25 30
 Glu Ala Met Glu Gly Gly Pro Ala Val Cys Cys Gln Asp Pro Arg Ala
 35 40 45
 Glu Leu Val Glu Arg Val Ala Ala Ile Asp Val Thr His Leu Glu Glu
 50 55 60
 Ala Asp Gly Gly Pro Glu Pro Thr Arg Asn Gly Val Asp Pro Pro Pro
 65 70 75 80
 Arg Ala Arg Ala Ala Ser Val Ile Pro Gly Ser Thr Ser Arg Leu Leu
 85 90 95
 Pro Ala Arg Pro Ser Leu Ser Ala Arg Lys Leu Ser Leu Gln Glu Arg
 100 105 110
 Pro Ala Gly Ser Tyr Leu Glu Ala Gln Ala Gly Pro Tyr Ala Thr Gly
 115 120 125
 Pro Ala Ser His Ile Ser Pro Arg Ala Trp Arg Arg Pro Thr Ile Glu
 130 135 140
 Ser His His Val Ala Ile Ser Asp Ala Glu Asp Cys Val Gln Leu Asn
 145 150 155 160
 Gln Tyr Lys Leu Gln Ser Glu Ile Gly Lys Gly Ala Tyr Gly Val Val
 165 170 175
 Arg Leu Ala Tyr Asn Glu Ser Glu Asp Arg His Tyr Ala Met Lys Val
 180 185 190
 Leu Ser Lys Lys Lys Leu Leu Lys Gln Tyr Gly Phe Pro Arg Arg Pro
 195 200 205

Pro Pro
210

<210> 760
<211> 172
<212>Amino acid
<213> Homo sapiens

<400> 760
Phe Val Tyr Gly Lys Pro Val Thr Leu Trp Pro Thr Ile Ser Ser Val
1 5 10 15
Val Pro Ser Thr Phe Leu Gly Leu Gly Asn Tyr Glu Val Glu Val Glu
20 25 30
Ala Glu Pro Asp Val Arg Gly Pro Glu Ile Val Thr Met Gly Glu Asn
35 40 45
Asp Pro Pro Ala Val Glu Ala Pro Phe Ser Phe Arg Ser Leu Phe Gly
50 55 60
Leu Asp Asp Leu Lys Ile Ser Pro Val Ala Pro Asp Ala Asp Ala Val
65 70 75 80
Ala Ala Gln Ile Leu Ser Leu Leu Pro Leu Lys Phe Phe Pro Ile Ile
85 90 95
Val Ile Gly Ile Ile Ala Leu Ile Leu Ala Leu Ala Ile Gly Leu Gly
100 105 110
Ile His Phe Asp Cys Ser Gly Lys Tyr Arg Cys Arg Ser Ser Phe Lys
115 120 125
Cys Ile Glu Leu Ile Ala Arg Cys Asp Gly Val Ser Asp Cys Lys Asp
130 135 140
Gly Glu Asp Glu Tyr Arg Cys Val Arg Val Gly Gly Gln Asn Ala Ala
145 150 155 160
Leu Gln Val Phe Thr Ala Ala Ser Arg Lys Thr Met
165 170 172

<210> 761
<211> 104
<212>Amino acid
<213> Homo sapiens

<400> 761
Ser Leu Ala Met Pro Phe Gly Cys Val Thr Leu Gly Asp Lys Lys Asn
1 5 10 15
Tyr Asn Gln Pro Ser Glu Val Thr Asp Arg Tyr Asp Leu Gly Gln Val
20 25 30
Ile Lys Thr Glu Glu Phe Cys Glu Ile Phe Arg Ala Lys Asp Lys Thr
35 40 45
Thr Gly Lys Leu His Thr Cys Lys Lys Phe Gln Lys Arg Asp Gly Arg
50 55 60
Lys Val Arg Lys Ala Ala Lys Asn Glu Ile Gly Ile Leu Lys Met Val
65 70 75 80
Lys His Pro Asn Ile Leu Gln Leu Val Asp Val Phe Val Thr Arg Lys
85 90 95
Glu Tyr Phe Ile Phe Leu Glu Leu
100 104

<210> 762
 <211> 249
 <212>Amino acid
 <213> Homo sapiens

<400> 762
 Gln Arg Arg Arg Phe Arg Ala Gly Leu Trp Gly Gly His Gly Leu Thr
 1 5 10 15
 Asp Gly Leu Arg Arg Asn Gly Gly Cys Gly Cys Ser Ala Arg Val Pro
 20 25 30
 Arg Val Gly Glu Arg Leu Arg Gly His Arg Cys Pro Asp Pro Leu Cys
 35 40 45
 Leu Leu Leu Asp Met Leu Phe Leu Ser Phe His Ala Gly Ser Trp Glu
 50 55 60
 Ser Trp Cys Cys Cys Cys Leu Ile Pro Ala Asp Arg Pro Trp Asp Arg
 65 70 75 80
 Gly Gln His Trp Gln Leu Glu Met Ala Asp Thr Arg Ser Val His Glu
 85 90 95
 Thr Arg Phe Glu Ala Ala Val Lys Val Ile Gln Ser Leu Pro Lys Asn
 100 105 110
 Gly Ser Phe Gln Pro Thr Asn Glu Met Met Leu Lys Phe Tyr Ser Phe
 115 120 125
 Tyr Lys Gln Ala Thr Glu Gly Pro Cys Lys Leu Ser Arg Pro Gly Phe
 130 135 140
 Trp Asp Pro Ile Gly Arg Tyr Lys Trp Asp Ala Trp Ser Ser Leu Gly
 145 150 155 160
 Asp Met Thr Lys Glu Ala Met Ile Ala Tyr Val Glu Glu Met Lys
 165 170 175
 Lys Ile Ile Glu Thr Met Pro Met Thr Glu Lys Val Glu Glu Leu Leu
 180 185 190
 Arg Val Ile Gly Pro Phe Tyr Glu Ile Val Glu Asp Lys Lys Ser Gly
 195 200 205
 Arg Ser Ser Asp Ile Thr Ser Asp Leu Gly Asn Val Leu Thr Ser Thr
 210 215 220
 Pro Asn Ala Lys Thr Val Asn Gly Lys Ala Glu Ser Ser Asp Ser Gly
 225 230 235 240
 Ala Glu Ser Glu Glu Glu Glu Ala Cys
 245 249

<210> 763
 <211> 184
 <212>Amino acid
 <213> Homo sapiens

<400> 763
 Ser Cys Phe Lys Gly Arg Thr Gly Gly Arg Ser Gly Ser Ser Gly Asp
 1 5 10 15
 Ser Ser Arg Trp Ala Arg Cys Gly Arg His Phe Ser Ala Ser Thr Glu
 20 25 30
 Glu Pro Pro Leu Ser Gln Pro Cys Ser Ala Leu Pro Arg Ser Gly Arg
 35 40 45
 Arg Gly Cys Ala Val Pro Ser Ser Val Thr Lys Met Leu Ser Phe Phe
 50 55 60
 Arg Arg Thr Leu Gly Arg Arg Ser Met Arg Lys His Ala Glu Lys Glu
 65 70 75 80

```

Arg Leu Arg Glu Ala Gln Arg Ala Ala Thr His Ile Pro Ala Ala Gly
      85          90          95
Asp Ser Lys Ser Ile Ile Thr Cys Arg Val Ser Leu Leu Asp Gly Thr
      100        105        110
Asp Val Ser Val Asp Leu Pro Lys Lys Ala Lys Gly Gln Glu Leu Phe
      115        120        125
Asp Gln Ile Met Tyr His Leu Asp Leu Ile Glu Ser Asp Tyr Phe Gly
      130        135        140
Leu Arg Phe Met Asp Ser Ala Gln Val Ala His Trp Leu Asp Gly Thr
      145        150        155        160
Lys Ser Ile Lys Lys Gln Val Lys Ile Gly Ser Pro Tyr Cys Leu His
      165        170        175
Leu Arg Val Lys Phe Tyr Ser Ser
      180        184

```

<210> 764
 <211> 138
 <212>Amino acid
 <213> Homo sapiens

```

<400> 764
Glu Ser Arg Glu Arg Ser Gly Asn Arg Arg Gly Ala Glu Asp Arg Gly
 1          5          10          15
Thr Cys Gly Leu Gln Ser Pro Ser Ala Met Leu Gly Ala Lys Pro His
      20          25          30
Trp Leu Pro Gly Pro Leu His Ser Pro Gly Leu Pro Leu Val Leu Val
      35          40          45
Leu Leu Ala Leu Gly Ala Gly Trp Ala Gln Glu Gly Ser Glu Pro Val
      50          55          60
Leu Leu Glu Gly Glu Cys Leu Val Val Cys Glu Pro Gly Arg Ala Ala
      65          70          75          80
Ala Gly Gly Pro Gly Gly Ala Ala Leu Gly Glu Ala Pro Pro Gly Arg
      85          90          95
Val Ala Phe Ala Ala Val Arg Ser His His His Glu Pro Ala Gly Glu
      100        105        110
Thr Gly Asn Gly Thr Ser Gly Ala Ile Tyr Phe Asp Gln Val Leu Val
      115        120        125
Asn Glu Gly Gly Gly Phe Asp Arg Ala Ser
      130        135        138

```

<210> 765
 <211> 168
 <212>Amino acid
 <213> Homo sapiens

```

<400> 765
Glu Asp Val Lys Ser Tyr Tyr Thr Val His Leu Pro Gln Leu Glu Asn
 1          5          10          15
Ile Asn Ser Gly Glu Thr Arg Thr Ile Ser His Phe His Tyr Thr Thr
      20          25          30
Trp Pro Asp Phe Gly Val Pro Gln Ser Pro Ala Ser Phe Leu Asn Phe
      35          40          45
Leu Phe Lys Val Arg Glu Ser Gly Ser Leu Asn Pro Asp His Gly Pro
      50          55          60

```

```

Val Val Ile His Arg Ser Ala Gly Thr Gly Arg Ser Ser Thr Phe Ser
 65          70          75          80
Val Val His Thr Cys Leu Val Leu Met Glu Lys Gly Asp Asp Ile Asn
          85          90          95
Ile Lys Gln Val Leu Leu Asn Ile Arg Lys Phe Gln Met Gly Leu Ile
          100         105         110
Gln Thr Pro Asp Gln Leu Arg Phe Ser Tyr Met Ala Ile Thr Glu Gly
          115         120         125
Ala Lys Cys Val Lys Gly Asp Ser Ser Ile Gln Lys Arg Trp Lys Glu
          130         135         140
Leu Ser Lys Glu Asp Leu Pro Pro Ala Phe Asp His Ser Pro Asn Lys
145          150         155         160
Ile Met Thr Glu Lys Tyr Asn Arg
          165         168

```

<210> 766
 <211> 255
 <212>Amino acid
 <213> Homo sapiens

```

<400> 766
Leu Asn Arg Gln Arg Cys Gly Asp Gln Val Leu Val Pro Gly Thr Gly
 1          5          10          15
Leu Ala Ala Ile Leu Arg Thr Leu Pro Met Phe His Asp Glu Glu His
          20          25          30
Ala Arg Ala Arg Gly Leu Ser Glu Asp Thr Leu Val Leu Pro Pro Ala
          35          40          45
Ser Arg Asn Gln Arg Ile Leu Tyr Thr Val Leu Glu Cys Gln Pro Leu
          50          55          60
Phe Asp Ser Ser Asp Met Thr Ile Ala Glu Trp Val Cys Leu Ala Gln
          65          70          75          80
Thr Ile Lys Arg His Tyr Glu Gln Tyr His Gly Phe Val Val Ile His
          85          90          95
Gly Thr Asp Thr Met Ala Phe Ala Ala Ser Met Leu Ser Phe Met Leu
          100         105         110
Glu Asn Leu Gln Lys Thr Val Ile Leu Thr Gly Ala Gln Val Pro Ile
          115         120         125
His Ala Leu Trp Ser Asp Gly Arg Glu Asn Leu Leu Gly Ala Leu Leu
          130         135         140
Met Ala Gly Gln Tyr Val Ile Pro Glu Val Cys Leu Phe Phe Gln Asn
145          150         155         160
Gln Leu Phe Arg Gly Asn Arg Ala Thr Lys Val Asp Ala Arg Arg Phe
          165         170         175
Ala Ala Phe Cys Ser Pro Asn Leu Leu Pro Leu Ala Thr Val Gly Ala
          180         185         190
Asp Ile Thr Ile Asn Arg Glu Leu Val Arg Lys Val Asp Gly Lys Ala
          195         200         205
Gly Leu Val Val His Ser Ser Met Glu Gln Asp Val Gly Leu Leu Arg
          210         215         220
Leu Tyr Pro Gly Ile Pro Ala Ala Leu Val Arg Ala Phe Leu Gln Pro
225          230         235         240
Pro Leu Lys Gly Val Val Met Glu Thr Phe Gly Ser Gly Asn Gly
          245         250         255

```

<210> 767
 <211> 260
 <212>Amino acid
 <213> Homo sapiens

<400> 767

```

Leu Phe Arg Leu Ala Pro Gly Phe Leu Arg Ser Leu Ala Arg Gln Gly
 1           5           10           15
Tyr His Gln Ile Trp Ala Phe Pro Phe Leu Pro Ser Gly Ala Thr Ala
          20           25           30
Thr Trp Pro Ala Ala Ser Arg Ser Arg Ser Leu Ala Ala Arg Ser Leu
          35           40           45
Pro Arg Ser Pro Ala Arg Pro Gly Pro Asn Asp Ala Leu Leu Gly Glu
          50           55           60
His Asp Phe Arg Gly Gln Gly Val Arg Ala Gln Arg Phe Arg Phe Ser
          65           70           75           80
Glu Glu Pro Gly Pro Gly Ala Asp Gly Ala Val Leu Glu Val His Val
          85           90           95
Pro Gln Ile Gly Ala Gly Val Ser Leu Pro Gly Ile Leu Ala Ala Lys
          100          105          110
Cys Gly Ala Glu Val Ile Leu Ser Asp Ser Ser Glu Leu Pro His Cys
          115          120          125
Leu Glu Val Cys Arg Gln Ser Cys Gln Met Asn Asn Leu Pro His Leu
          130          135          140
Gln Val Val Gly Leu Thr Trp Gly His Ile Ser Trp Asp Leu Leu Ala
          145          150          155          160
Leu Pro Pro Gln Asp Ile Ile Leu Ala Ser Asp Val Phe Phe Glu Pro
          165          170          175
Glu Asp Phe Glu Asp Ile Leu Ala Thr Ile Tyr Phe Leu Met His Lys
          180          185          190
Asn Pro Lys Val Gln Leu Trp Ser Thr Tyr Gln Val Arg Ser Ala Asp
          195          200          205
Trp Ser Leu Glu Ala Leu Leu Tyr Lys Trp Asp Met Lys Cys Val His
          210          215          220
Ile Pro Leu Glu Ser Phe Asp Ala Asp Lys Glu Asp Ile Ala Glu Ser
          225          230          235          240
Thr Leu Pro Gly Arg His Thr Val Glu Met Leu Val Ile Ser Phe Ala
          245          250          255
Lys Asp Ser Leu
          260

```

<210> 768

<211> 200

<212> Amino acid

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(200)

<223> X = any amino acid or stop code

<400> 768

```

Ser Phe Ile Tyr Lys His Thr His Arg Ala Arg Phe Gly Pro Arg Ala
 1           5           10           15
Ile Val Ala Ser Pro Ala Leu Thr Ala Gly Pro His Val Ser Leu Thr
          20           25           30
Ala Ser Cys Arg Val Gly Met Trp Val Ser Cys Ser Pro Ser Pro Phe
          35           40           45
Leu His Pro Thr Asn Thr Leu Val Ala Val Leu Glu Arg Asp Thr Leu

```

```

      50              55              60
Gly Ile Arg Glu Val Arg Leu Phe Asn Ala Val Val Arg Trp Ser Glu
 65              70              75              80
Ala Glu Cys Gln Arg Gln Gln Leu Gln Val Thr Pro Glu Asn Arg Arg
      85              90              95
Lys Val Leu Gly Lys Ala Leu Gly Leu Ile Arg Phe Pro Leu Met Thr
      100              105              110
Ile Glu Glu Phe Ala Ala Gly Asn Arg Ala Arg Ala Gln Gly Leu Val
      115              120              125
Trp Glu Gly Ser Gly Thr Gln Val Gly Ile Trp Cys Thr Glu Asp Ser
      130              135              140
Ala Pro Glu Phe Thr Ala Glu Ser Leu Ala Asp Ala Trp His Ile Gln
      145              150              155              160
Ile Gly Arg Asn Leu Ala Cys Glu Asp Ala Ser Thr Trp Ala Ile Cys
      165              170              175
Xaa Pro Arg Pro Gly Ser Val Pro Thr Val His Thr Ala Arg Pro Arg
      180              185              190
Leu Ser Cys Leu Ser Ser Cys Phe
      195              200

```

```

<210> 769
<211> 33
<212>Amino acid
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(33)
<223> X = any amino acid or stop code

```

```

      <400> 769
Met Ala Ser Thr Gln Asp Ala Glu Leu Ala Val Ser Arg Xaa Arg Ala
 1              5              10              15
Ile Ala Leu Xaa Pro Gly Xaa Gln Ser Xaa Xaa Pro Ser Gln Lys Lys
      20              25              30
Lys
 33

```

```

<210> 770
<211> 599
<212>Amino acid
<213> Homo sapiens

```

```

      <400> 770
Leu Leu Lys Ser Cys Gly Val Leu Leu Ser Gly Val Cys Ile Pro Cys
 1              5              10              15
Glu Gly Lys Gly Pro Thr Val Leu Val Ile Gln Thr Ala Val Pro Gln
      20              25              30
Asp Arg Pro Thr Lys Ser Ser Met Arg Ser Ala Ala Lys Pro Trp Asn
      35              40              45
Pro Ala Ile Arg Ala Gly Gly His Gly Pro Asp Arg Val Arg Pro Leu
      50              55              60
Pro Ala Ala Ser Ser Gly Met Lys Ser Ser Lys Ser Ser Thr Ser Leu
      65              70              75              80

```

Ala	Phe	Glu	Ser	Arg	Leu	Ser	Arg	Leu	Lys	Arg	Ala	Ser	Ser	Glu	Asp
				85					90					95	
Thr	Leu	Asn	Lys	Pro	Gly	Ser	Thr	Ala	Ala	Ser	Gly	Val	Val	Arg	Leu
			100					105					110		
Lys	Lys	Thr	Ala	Thr	Ala	Gly	Ala	Ile	Ser	Glu	Leu	Thr	Glu	Ser	Arg
		115					120					125			
Leu	Arg	Ser	Gly	Thr	Gly	Ala	Phe	Thr	Thr	Thr	Lys	Arg	Thr	Gly	Ile
	130				135						140				
Pro	Ala	Pro	Arg	Glu	Phe	Ser	Val	Thr	Val	Ser	Arg	Glu	Arg	Ser	Val
145					150					155					160
Pro	Arg	Gly	Pro	Ser	Asn	Pro	Arg	Lys	Ser	Val	Ser	Ser	Pro	Thr	Ser
				165					170					175	
Ser	Asn	Thr	Pro	Thr	Pro	Thr	Lys	His	Leu	Arg	Thr	Pro	Ser	Thr	Lys
			180					185					190		
Pro	Lys	Gln	Glu	Asn	Glu	Gly	Gly	Glu	Lys	Val	Arg	Leu	Ser	Pro	Lys
	195						200					205			
Phe	Arg	Glu	Leu	Leu	Ala	Glu	Ala	Lys	Ala	Lys	Asp	Ser	Glu	Ile	Asn
	210					215					220				
Arg	Leu	Arg	Ser	Glu	Leu	Lys	Lys	Tyr	Lys	Glu	Lys	Arg	Thr	Leu	Asn
225					230					235					240
Ala	Glu	Gly	Thr	Asp	Ala	Leu	Gly	Pro	Asn	Val	Asp	Gly	Thr	Ser	Val
				245					250					255	
Ser	Pro	Gly	Asp	Thr	Glu	Pro	Met	Ile	Arg	Ala	Leu	Glu	Glu	Lys	Asn
			260					265					270		
Lys	Asn	Phe	Gln	Lys	Glu	Leu	Ser	Asp	Leu	Glu	Glu	Glu	Asn	Arg	Val
	275						280					285			
Leu	Lys	Glu	Lys	Leu	Ile	Tyr	Leu	Glu	His	Ser	Pro	Asn	Ser	Glu	Gly
	290				295						300				
Ala	Ala	Ser	His	Thr	Gly	Asp	Ser	Ser	Cys	Pro	Thr	Ser	Ile	Thr	Gln
305					310					315					320
Glu	Ser	Ser	Phe	Gly	Ser	Pro	Thr	Gly	Asn	Gln	Leu	Ser	Ser	Asp	Ile
				325					330					335	
Asp	Glu	Tyr	Lys	Lys	Asn	Ile	His	Gly	Asn	Ala	Leu	Arg	Thr	Ser	Gly
			340					345					350		
Ser	Ser	Ser	Ser	Asp	Val	Thr	Lys	Ala	Ser	Leu	Ser	Pro	Asp	Ala	Ser
			355				360						365		
Asp	Phe	Glu	His	Ile	Thr	Ala	Glu	Thr	Pro	Ser	Arg	Pro	Leu	Ser	Ser
	370					375					380				
Thr	Ser	Asn	Pro	Phe	Lys	Ser	Ser	Lys	Cys	Ser	Thr	Ala	Gly	Ser	Ser
385					390					395					400
Pro	Asn	Ser	Val	Ser	Glu	Leu	Ser	Leu	Ala	Ser	Leu	Thr	Glu	Lys	Ile
			405						410					415	
Gln	Lys	Met	Glu	Glu	Asn	His	His	Ser	Thr	Ala	Glu	Glu	Leu	Gln	Ala
			420					425					430		
Thr	Leu	Gln	Glu	Leu	Ser	Asp	Gln	Gln	Gln	Met	Val	Gln	Glu	Leu	Thr
		435					440					445			
Ala	Glu	Asn	Glu	Lys	Leu	Val	Asp	Glu	Lys	Thr	Ile	Leu	Glu	Thr	Ser
	450					455					460				
Phe	His	Gln	His	Arg	Glu	Arg	Ala	Glu	Gln	Leu	Ser	Gln	Glu	Asn	Glu
465					470					475					480
Lys	Leu	Met	Asn	Leu	Leu	Gln	Glu	Arg	Val	Lys	Asn	Glu	Glu	Pro	Thr
			485						490					495	
Thr	Gln	Glu	Gly	Lys	Ile	Ile	Glu	Leu	Glu	Gln	Lys	Cys	Thr	Gly	Ile
			500				505						510		
Leu	Glu	Gln	Gly	Arg	Phe	Glu	Arg	Glu	Lys	Leu	Leu	Asn	Ile	Gln	Gln
		515					520					525			
Gln	Leu	Thr	Cys	Ser	Leu	Arg	Lys	Val	Glu	Glu	Glu	Asn	Gln	Gly	Ala
	530					535					540				
Leu	Glu	Met	Ile	Lys	Arg	Leu	Lys	Glu	Glu	Asn	Glu	Lys	Leu	Asn	Glu
545					550					555					560
Phe	Leu	Glu	Leu	Glu	Arg	His	Asn	Asn	Asn	Met	Met	Ala	Lys	Thr	Leu
				565					570					575	
Glu	Glu	Cys	Arg	Val	Thr	Leu	Glu	Gly	Leu	Lys	Met	Glu	Asn	Gly	Ser
			580					585					590		

Leu Lys Ser His Leu Gln Gly
595 599

<210> 771
<211> 103
<212>Amino acid
<213> Homo sapiens

<400> 771
Ser Gln Met His Arg Leu Ile Phe Val Tyr Thr Leu Ile Cys Ala Asn
1 5 10 15
Phe Cys Ser Cys Arg Asp Thr Ser Ala Thr Pro Gln Ser Ala Ser Ile
20 25 30
Lys Ala Leu Arg Asn Ala Asn Leu Arg Arg Asp Glu Ser Asn His Leu
35 40 45
Thr Asp Leu Tyr Arg Arg Asp Glu Thr Ile Gln Val Lys Gly Asn Gly
50 55 60
Tyr Val Gln Ser Pro Arg Phe Pro Asn Ser Tyr Pro Arg Asn Leu Leu
65 70 75 80
Leu Thr Trp Arg Leu His Ser Gln Glu Asn Thr Arg Ile Gln Leu Val
85 90 95
Phe Asp Asn Gln Phe Gly Leu
100 103

<210> 772
<211> 218
<212>Amino acid
<213> Homo sapiens

<400> 772
Pro Phe Lys Lys Met Thr Asp Leu Leu Arg Ser Val Val Thr Val Ile
1 5 10 15
Asp Val Phe Tyr Lys Tyr Thr Lys Gln Asp Gly Glu Cys Gly Thr Leu
20 25 30
Ser Lys Gly Glu Leu Lys Glu Leu Glu Lys Glu Leu His Pro Val
35 40 45
Leu Lys Asn Pro Asp Asp Pro Asp Thr Val Asp Val Ile Met His Met
50 55 60
Leu Asp Arg Asp His Asp Arg Arg Leu Asp Phe Thr Glu Phe Leu Leu
65 70 75 80
Met Ile Phe Lys Leu Thr Met Ala Cys Asn Lys Val Leu Ser Lys Glu
85 90 95
Tyr Cys Lys Ala Ser Gly Ser Lys Lys His Arg Arg Gly His Arg His
100 105 110
Gln Glu Glu Glu Ser Glu Thr Glu Glu Asp Glu Glu Thr Pro Gly
115 120 125
His Lys Ser Gly Tyr Arg His Ser Ser Trp Ser Glu Gly Glu Glu His
130 135 140
Gly Tyr Ser Ser Gly His Ser Arg Gly Thr Val Lys Cys Arg His Gly
145 150 155 160
Ser Asn Ser Arg Arg Leu Gly Arg Gln Gly Asn Leu Ser Ser Ser Gly
165 170 175
Asn Gln Glu Gly Ser Gln Lys Arg Tyr His Arg Ser Ser Cys Gly His
180 185 190

Ser Trp Ser Gly Gly Lys Asp Arg His Gly Ser Ser Ser Val Glu Leu
 195 200 205
 Arg Glu Arg Ile Asn Lys Ser His Ile Lys
 210 215 218

<210> 773
 <211> 130
 <212> Amino acid
 <213> Homo sapiens

<400> 773
 Val Pro Lys Ile Ser Gly Pro Asp His Ile Asp Phe Ile Pro Trp Asp
 1 5 10 15
 Gln Leu Phe Met Ala Ser Ser Ser Ser Val Thr Glu Phe Leu Val Leu
 20 25 30
 Gly Phe Ser Ser Leu Gly Glu Leu Gln Leu Val Leu Phe Ala Val Phe
 35 40 45
 Leu Cys Leu Tyr Leu Ile Ile Leu Ser Gly Asn Ile Ile Ile Ser
 50 55 60
 Val Ile His Leu Asp His Ser Leu His Thr Pro Met Tyr Phe Phe Leu
 65 70 75 80
 Gly Ile Leu Ser Ile Ser Glu Ile Phe Tyr Thr Thr Val Ile Leu Pro
 85 90 95
 Lys Met Leu Ile Asn Leu Phe Ser Val Phe Arg Thr Leu Ser Phe Val
 100 105 110
 Ser Cys Ala Thr Gln Met Phe Tyr Glu Ile Val Gly Pro Gly Thr Gln
 115 120 125
 Glu Arg
 130

<210> 774
 <211> 204
 <212> Amino acid
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(204)
 <223> X = any amino acid or stop code

<400> 774
 Asp His Ser Thr Glu Thr Pro Gly Ile Pro Ala Ala Glu Pro Val Ser
 1 5 10 15
 His Gly Thr Gly Lys Leu Glu Arg Ala Pro Thr Leu Pro Ala Gly Ala
 20 25 30
 Glu Leu Pro Ala Pro Ala Ala Val Pro Cys Pro Thr Leu Xaa Val Cys
 35 40 45
 Leu Tyr Pro Gln Leu Leu Gly Leu Ser Val Ala Thr Met Val Thr Leu
 50 55 60
 Thr Tyr Phe Gly Ala His Phe Ala Val Ile Arg Arg Ala Ser Leu Glu
 65 70 75 80
 Lys Asn Pro Tyr Gln Ala Val His Gln Trp Gly Thr Gln Gln Arg Leu
 85 90 95
 Ile Gln His Pro Glu Ser Gly Ser Glu Gly Gln Ser Leu Leu Gly Pro

```

      100      105      110
Leu Arg Ala Phe Ser Ala Gly Leu Ser Leu Val Gly Leu Leu Thr Leu
      115      120      125
Gly Ala Val Leu Ser Ala Ala Ala Thr Val Arg Glu Ala Gln Gly Leu
      130      135      140
Met Ala Gly Gly Phe Leu Cys Phe Ser Leu Ala Phe Cys Ala Gln Val
145      150      155      160
Gln Val Val Phe Trp Arg Leu His Ser Pro Thr Gln Val Glu Asp Ala
      165      170      175
Met Leu Asp Thr Tyr Asp Leu Val Tyr Glu Gln Ala Met Lys Gly Thr
      180      185      190
Ser His Val Arg Arg Gln Glu Leu Ala Ala Ile Gln
      195      200      204

```

<210> 775
 <211> 121
 <212>Amino acid
 <213> Homo sapiens

```

<400> 775
Gln Pro Gly Tyr Ser Glu Tyr Asp Lys Asn Arg Gly Gln Gly Met Leu
 1      5      10      15
Leu Asn Met Met Cys Gly Arg Gln Leu Ser Ala Ile Ser Leu Cys Leu
      20      25      30
Ala Val Thr Phe Ala Pro Leu Phe Asn Ala Gln Ala Asp Glu Pro Glu
      35      40      45
Val Ile Pro Gly Asp Ser Pro Val Ala Val Ser Glu Gln Gly Glu Ala
      50      55      60
Leu Pro Gln Ala Gln Ala Thr Ala Ile Met Ala Gly Ile Gln Pro Leu
      65      70      75      80
Pro Glu Gly Ala Ala Glu Lys Ala Arg Thr Gln Ile Glu Ser Gln Leu
      85      90      95
Pro Ala Gly Tyr Lys Pro Val Tyr Leu Asn Gln Leu Gln Leu Leu Tyr
      100      105      110
Ala Ala Arg Gly Ile Ser Cys Ser Val
      115      120 121

```

<210> 776
 <211> 142
 <212>Amino acid
 <213> Homo sapiens

```

<400> 776
Arg Thr Arg Ala Ala Asp Val Tyr Val Phe Ser Leu Thr Gly Lys Ser
 1      5      10      15
Arg Asn Val Ser Ser Ser Thr Val Arg Arg Ser Ala Val Gly Gly Met
      20      25      30
Ser Ala Leu Ala Leu Phe Asp Leu Leu Lys Pro Asn Tyr Ala Leu Ala
      35      40      45
Thr Gln Val Glu Phe Thr Asp Pro Glu Ile Val Ala Glu Tyr Ile Thr
      50      55      60
Tyr Pro Ser Pro Asn Gly His Gly Glu Val Arg Gly Tyr Leu Val Lys
      65      70      75      80
Pro Ala Lys Met Ser Gly Lys Thr Pro Ala Val Val Val Val His Glu

```

```
<210> 777
<211> 150
<212> Amino acid
<213> Homo sapiens
```

```
<210> 778
<211> 296
<212> Amino acid
<213> Homo sapiens
```

427

```

      100      105      110
Ile Arg Arg Phe Leu Leu Ala Tyr Lys Met Met Leu Glu Phe Phe Gly
      115      120      125
Ile Lys Leu Thr Asp Lys Thr Gly Asn Val Ala Arg Ala Val Asn Trp
      130      135      140
Gln Glu Arg Phe Gln His Leu Asn Glu Ser Gln His Asn Tyr Leu Arg
145      150      155      160
Ile Thr Arg Ile Leu Lys Ser Leu Gly Glu Leu Gly Tyr Glu Ser Phe
      165      170      175
Lys Ser Pro Leu Val Lys Phe Ile Leu His Glu Ala Leu Val Glu Asn
      180      185      190
Thr Ile Pro Asn Ile Lys Gln Ser Ala Leu Glu Tyr Phe Val Tyr Thr
      195      200      205
Ile Arg Asp Arg Arg Glu Arg Arg Lys Leu Leu Arg Phe Ala Gln Lys
210      215      220
His Tyr Thr Pro Ser Glu Asn Phe Ile Trp Gly Pro Pro Arg Lys Glu
225      230      235      240
Gln Ser Glu Gly Ser Lys Ala Gln Lys Met Ser Ser Pro Leu Ala Ser
      245      250      255
Ser His Asn Ser Gln Thr Ser Met His Lys Lys Ala Lys Asp Ser Lys
      260      265      270
Asn Ser Ser Ser Ala Val His Leu Asn Ser Lys Thr Ala Glu Asp Lys
      275      280      285
Lys Val Ala Pro Lys Glu Pro Val
290      295 296

```

<210> 779
 <211> 90
 <212>Amino acid
 <213> Homo sapiens

```

      <400> 779
Glu Leu Gln Val Phe Gln Pro Ile Gly Gly Met Ser Asp Ser Gly Ser
 1      5      10      15
Gln Leu Gly Ser Met Gly Ser Leu Thr Met Lys Ser Gln Leu Gln Ile
      20      25      30
Thr Val Ile Ser Ala Lys Leu Lys Glu Asn Lys Lys Asn Trp Phe Gly
      35      40      45
Pro Ser Pro Tyr Val Glu Val Thr Val Asp Gly Gln Ser Lys Lys Thr
      50      55      60
Glu Lys Cys Asn Asn Thr Asn Ser Pro Lys Trp Lys Gln Pro Leu Thr
      65      70      75      80
Val Ile Val Thr Pro Val Ser Lys Leu His
      85      90

```

<210> 780
 <211> 88
 <212>Amino acid
 <213> Homo sapiens

```

      <400> 780
Ile Glu Thr Leu Ser Phe Val Ile Arg Asn Trp Asn Thr His Ala Met
 1      5      10      15
Ser Lys Pro Ile Val Met Glu Arg Gly Val Lys Tyr Arg Asp Ala Asp

```

```

      20      25      30
Lys Met Ala Leu Ile Pro Val Lys Asn Val Ala Thr Glu Arg Glu Ala
      35      40      45
Leu Leu Arg Lys Pro Glu Trp Met Lys Ile Lys Leu Pro Ala Asp Ser
      50      55      60
Thr Arg Ile Gln Gly Ile Lys Ala Ala Met Arg Lys Asn Gly Leu His
      65      70      75      80
Ser Val Cys Glu Glu Ala Ser Cys
      85      88

```

<210> 781
 <211> 35
 <212>Amino acid
 <213> Homo sapiens

```

      <400> 781
Pro Arg Met Val Leu Gly Lys Pro Gln Thr Asp Pro Thr Leu Glu Trp
      1      5      10      15
Phe Leu Ser His Cys His Ile His Lys Tyr Pro Ser Lys Ser Thr Leu
      20      25      30
Ile Pro Gln
      35

```

<210> 782
 <211> 145
 <212>Amino acid
 <213> Homo sapiens

```

      <400> 782
Gly Leu Arg Ile Ser Val Gln Glu Arg Ile Lys Ala Cys Phe Thr Glu
      1      5      10      15
Ser Ile Gln Thr Gln Ile Ala Ala Ala Glu Ala Leu Pro Asp Ala Ile
      20      25      30
Ser Arg Ala Ala Met Thr Leu Val Gln Ser Leu Leu Asn Gly Asn Lys
      35      40      45
Ile Leu Cys Cys Gly Asn Gly Thr Ser Ala Ala Asn Ala Gln His Phe
      50      55      60
Ala Ala Ser Met Ile Asn Arg Phe Glu Thr Glu Arg Pro Ser Leu Pro
      65      70      75      80
Ala Ile Ala Leu Asn Thr Asp Asn Val Val Leu Thr Ala Ile Ala Asn
      85      90      95
Asp Arg Leu His Asp Glu Val Tyr Ala Lys Gln Val Arg Ala Leu Gly
      100      105      110
His Ala Gly Asp Val Leu Leu Ala Ile Ser Thr Arg Gly Asn Ser Arg
      115      120      125
Asp Ile Val Lys Ala Val Glu Ala Ala Val Thr Arg Asp Thr Thr Ile
      130      135      140
Val
145

```

<210> 783
 <211> 102
 <212>Amino acid

<213> Homo sapiens

<400> 783

```

Lys Gln Thr Gln His Ala Pro Gly Met Met Lys Lys Tyr Leu Ala Leu
 1          5          10          15
Ala Leu Ile Ala Pro Leu Leu Ile Ser Cys Ser Thr Thr Lys Lys Gly
      20          25          30
Asp Thr Tyr Asn Glu Ala Trp Val Lys Asp Thr Asn Gly Phe Asp Ile
      35          40          45
Leu Met Gly Gln Phe Ala His Asn Ile Glu Asn Ile Trp Gly Phe Lys
      50          55          60
Glu Val Val Ile Ala Gly Pro Lys Asp Tyr Val Lys Tyr Thr Asp Gln
      65          70          75          80
Tyr Gln Thr Arg Ser His Ile Asn Phe Asp Asp Gly Thr Ile Thr Ile
      85          90          95
Glu Pro Ile Pro Gly Thr
      100          102

```

<210> 784

<211> 78

<212>Amino acid

<213> Homo sapiens

<400> 784

```

Thr Asp Arg Thr Ala Leu Asn Pro Gly Gln Glu Ser Ala Met Asn Arg
 1          5          10          15
Leu Phe Ser Gly Arg Ser Asp Met Pro Phe Ala Leu Leu Leu Ala
      20          25          30
Pro Ser Leu Leu Leu Gly Gly Leu Val Ala Trp Pro Met Val Ser
      35          40          45
Asn Ile Glu Ile Ser Phe Leu Arg Leu Pro Leu Asn Pro Asn Ile Glu
      50          55          60
Ser Thr Phe Val Gly Val Ser Asn Tyr Val Arg Ile Leu Ser
      65          70          75          78

```

<210> 785

<211> 148

<212>Amino acid

<213> Homo sapiens

<400> 785

```

Lys Glu Leu Val Asp Glu Lys Ser Glu Arg Gly Arg Ala Met Asp Pro
 1          5          10          15
Val Ser Gln Leu Ala Ser Ala Gly Thr Phe Arg Val Leu Lys Glu Pro
      20          25          30
Leu Ala Phe Leu Arg Ala Leu Glu Leu Leu Phe Ala Ile Phe Ala Phe
      35          40          45
Ala Thr Cys Gly Gly Tyr Ser Gly Gly Leu Arg Leu Ser Val Asp Cys
      50          55          60
Val Asn Lys Thr Glu Ser Asn Leu Ser Ile Asp Ile Ala Phe Ala Tyr

```

65					70					75				80
Pro	Phe	Arg	Leu	His	Gln	Val	Thr	Phe	Glu	Val	Pro	Thr	Cys	Glu Gly
				85					90					95
Lys	Glu	Arg	Gln	Lys	Leu	Ala	Leu	Ile	Gly	Asp	Ser	Ser	Ser	Ser Ala
			100					105					110	
Glu	Phe	Phe	Val	Thr	Val	Ala	Val	Phe	Ala	Phe	Leu	Tyr	Ser	Leu Ala
		115					120					125		
Ala	Thr	Gly	Arg	Tyr	Ile	Phe	Phe	His	Asn	Lys	Asn	Arg	Glu	Asn Asn
	130					135					140			
Arg	Gly	Pro	Leu											
145			148											

<210> 786
 <211> 246
 <212> Amino acid
 <213> Homo sapiens

<400> 786														
Leu	Gly	Thr	Val	Ser	Tyr	Gly	Ala	Asp	Thr	Met	Asp	Glu	Ile	Gln Ser
1				5					10				15	
His	Val	Arg	Asp	Ser	Tyr	Ser	Gln	Met	Gln	Ser	Gln	Ala	Gly	Gly Asn
			20					25					30	
Asn	Thr	Gly	Ser	Thr	Pro	Leu	Arg	Lys	Ala	Gln	Ser	Ser	Ala	Pro Lys
		35					40					45		
Val	Arg	Lys	Ser	Val	Ser	Ser	Arg	Ile	His	Glu	Ala	Val	Lys	Ala Ile
	50					55				60				
Val	Leu	Cys	His	Asn	Val	Thr	Pro	Val	Tyr	Glu	Ser	Arg	Ala	Gly Val
	65			70					75					80
Thr	Glu	Glu	Thr	Glu	Phe	Ala	Glu	Ala	Asp	Gln	Asp	Phe	Ser	Asp Glu
			85					90					95	
Asn	Arg	Thr	Tyr	Gln	Ala	Ser	Ser	Pro	Asp	Glu	Val	Ala	Leu	Val Gln
		100					105					110		
Trp	Thr	Glu	Ser	Val	Gly	Leu	Thr	Leu	Val	Ser	Arg	Asp	Leu	Thr Ser
		115				120					125			
Met	Gln	Leu	Lys	Thr	Pro	Ser	Gly	Gln	Val	Leu	Ser	Phe	Cys	Ile Leu
	130					135				140				
Gln	Leu	Phe	Pro	Phe	Thr	Ser	Glu	Ser	Lys	Arg	Met	Gly	Val	Ile Val
	145				150				155				160	
Arg	Asp	Glu	Ser	Thr	Ala	Glu	Ile	Thr	Phe	Tyr	Met	Lys	Gly	Ala Asp
			165					170					175	
Val	Ala	Met	Ser	Pro	Ile	Val	Gln	Tyr	Asn	Asp	Trp	Leu	Glu	Glu Glu
		180					185				190			
Cys	Gly	Asn	Met	Ala	Arg	Glu	Gly	Leu	Arg	Thr	Leu	Val	Val	Ala Lys
		195					200				205			
Lys	Ala	Leu	Thr	Glu	Glu	Gln	Tyr	Gln	Asp	Phe	Glu	Val	Ser	Arg Leu
	210					215				220				
Pro	Gly	Ile	Pro	Ser	Ser	Tyr	Asp	Gly	Ala	Phe	Leu	Thr	Leu	Lys Leu
	225				230				235				240	
Val	Leu	Pro	Val	Phe	Val									
				245	246									

<210> 787
 <211> 176
 <212> Amino acid
 <213> Homo sapiens

<400> 787

```

Glu Gly Pro His Arg Arg Leu Phe Gln Met Val Lys Ala Leu Gln Glu
 1           5           10           15
Ala Pro Glu Asp Pro Asn Gln Ile Leu Ile Gly Tyr Ser Arg Gly Leu
          20           25           30
Val Val Ile Trp Asp Leu Gln Gly Ser Arg Val Leu Tyr His Phe Leu
          35           40           45
Ser Ser Gln Gln Leu Glu Asn Ile Trp Trp Gln Arg Asp Gly Arg Leu
          50           55           60
Leu Val Ser Cys His Ser Asp Gly Ser Tyr Cys Gln Trp Pro Val Ser
          65           70           75           80
Ser Glu Ala Gln Gln Pro Glu Pro Leu Arg Ser Leu Val Pro Tyr Gly
          85           90           95
Pro Phe Pro Cys Lys Ala Ile Thr Arg Ile Leu Trp Leu Thr Thr Arg
          100          105          110
Gln Gly Leu Pro Phe Thr Ile Phe Gln Gly Gly Met Pro Arg Ala Ser
          115          120          125
Tyr Gly Asp Arg His Cys Ile Ser Val Ile His Asp Gly Gln Gln Thr
          130          135          140
Ala Phe Asp Phe Thr Ser Arg Val Ile Gly Phe Thr Val Leu Thr Glu
          145          150          155          160
Ala Asp Pro Ala Ala Ser Arg Arg Ala Ser Gly Val Gly Ala Gln Gly
          165          170          175 176

```

<210> 788

<211> 180

<212>Amino acid

<213> Homo sapiens

<400> 788

```

Lys Gln Gly Leu Glu Val Arg Asp Leu His Phe Lys Glu Ile Thr Ser
 1           5           10           15
Gly Arg Ala Leu Leu Arg Val Ala Cys Lys Arg Pro Ser Met Val Pro
          20           25           30
Gly Gly Gln Leu Gln Arg Ala Gly Ala Gly Ala Gln Ala Arg Ile Thr
          35           40           45
Gly Leu Ser Pro Ala Leu Trp Gly Ala Arg Val His Gly Trp Ile Pro
          50           55           60
Glu Leu Pro Ala Gly Leu Pro Pro Gly Ala Cys Leu Trp Pro Leu Ile
          65           70           75           80
Pro Ala Cys Pro Ser Arg His Trp Gly Trp Val Ser Ala Pro Val Lys
          85           90           95
Gly Trp Ala Gln Ala Ile Leu Gly Leu Ala Leu Cys Leu Arg Gly Glu
          100          105          110
His Arg Gly Leu Gly Ala Gly Val Ser Lys Val Arg Ser Leu Lys Met
          115          120          125
Asp Arg Lys Val Trp Thr Glu Thr Leu Ile Glu Val Gly Met Pro Leu
          130          135          140
Leu Ala Thr Asp Thr Trp Gly Leu Pro His Ser Thr Ala Val Trp Val
          145          150          155          160
Ser Gln Pro Pro Pro Tyr Leu Ser Asp His Ser Thr Leu Glu Leu Glu
          165          170          175
Arg Asp Pro Leu
          180

```

<210> 789
 <211> 145
 <212>Amino acid
 <213> Homo sapiens

<400> 789
 Leu Ser Cys Asn Ser Glu Gln Ala Leu Leu Ser Leu Val Pro Val Gln
 1 5 10 15
 Arg Glu Leu Leu Arg Arg Arg Tyr Gln Ser Ser Pro Ala Lys Pro Asp
 20 25 30
 Ser Ser Phe Tyr Lys Gly Leu Gly Thr Cys Pro Ser Gln Leu Arg Leu
 35 40 45
 Ser Glu Pro Pro Pro Thr Pro Arg His Leu Ser Val Ala Ser Val Ser
 50 55 60
 His His Met Phe Pro Ser His Arg Ser Leu Cys Pro His Leu Pro Asp
 65 70 75 80
 Phe Phe Ala Ala Pro Phe Pro Ser Asp Asn Leu Pro Tyr Thr Leu Gln
 85 90 95
 Ser Pro Phe Pro Ser Pro Pro Pro Ala Thr Pro Ser Asp His Ala Leu
 100 105 110
 Ile Leu His His Asp Leu Asn Gly Gly Pro Asp Asp Pro Leu Gln Gln
 115 120 125
 Thr Gly Gln Leu Phe Gly Gly Leu Val Arg Asp Ile Arg Arg Arg Tyr
 130 135 140
 Pro
 145

<210> 790
 <211> 65
 <212>Amino acid
 <213> Homo sapiens

<400> 790
 Ser Pro Ser Ser Lys Leu Val Gly Met Trp Trp Ala Gly Arg Ala Gly
 1 5 10 15
 Ser Ser Arg Thr Thr Ser Val Ser Leu Leu Cys Leu Pro Ser Ala Pro
 20 25 30
 Phe Gly Ala Ser Asn Leu Leu Val Asn Pro Leu Glu Pro Gln Asn Ala
 35 40 45
 Asp Lys Ile Lys Ile Lys Ile Ala Asp Leu Gly Asn Ala Cys Trp Val
 50 55 60
 Val
 65

<210> 791
 <211> 144
 <212>Amino acid
 <213> Homo sapiens

<400> 791

```

Arg Val Asp Pro Arg Val Arg Ala Pro Arg Cys Gly Asp Lys Ile Lys
 1          5          10          15
Asn His Met Tyr Lys Cys Asp Cys Gly Ser Leu Lys Asp Cys Ala Ser
          20          25          30
Asp Arg Cys Cys Glu Thr Ser Cys Thr Leu Ser Leu Gly Ser Val Cys
          35          40          45
Asn Thr Gly Leu Cys Cys His Lys Cys Lys Tyr Ala Ala Pro Gly Val
          50          55          60
Val Cys Arg Asp Leu Gly Ile Cys Asp Leu Pro Glu Tyr Cys Asp
          65          70          75          80
Gly Lys Lys Glu Glu Cys Pro Asn Asp Ile Tyr Ile Gln Asp Gly Thr
          85          90          95
Pro Cys Ser Ala Val Ser Val Cys Ile Arg Gly Asn Cys Ser Asp Arg
          100          105          110
Asp Met Gln Cys Gln Ala Leu Phe Gly Tyr Gln Val Lys Asp Gly Ser
          115          120          125
Pro Ala Cys Tyr Arg Lys Leu Asn Arg Ile Gly Asn Arg Phe Gly Thr
          130          135          140          144

```

<210> 792

<211> 242

<212> Amino acid

<213> Homo sapiens

<400> 792

```

Pro Gly Arg Pro Thr Arg Pro Asp Ala Ser Leu Ala Gln Asp Pro Arg
 1          5          10          15
Thr Thr Met Phe Arg Ile Pro Glu Phe Lys Trp Ser Pro Met His Gln
          20          25          30
Arg Leu Leu Thr Asp Leu Leu Phe Ala Leu Glu Thr Asp Val His Val
          35          40          45
Trp Arg Ser His Ser Thr Lys Ser Val Met Asp Phe Val Asn Ser Asn
          50          55          60
Glu Asn Ile Ile Phe Val His Asn Thr Ile His Leu Ile Ser Gln Met
          65          70          75          80
Val Asp Asn Ile Ile Ile Ala Cys Gly Gly Ile Leu Pro Leu Leu Ser
          85          90          95
Ala Ala Thr Ser Pro Thr Gly Ser Lys Thr Glu Leu Glu Asn Ile Glu
          100          105          110
Val Thr Gln Gly Met Ser Ala Glu Thr Ala Val Thr Phe Leu Ser Arg
          115          120          125
Leu Met Ala Met Val Asp Val Leu Val Phe Ala Ser Ser Leu Asn Phe
          130          135          140
Ser Glu Ile Glu Ala Glu Lys Asn Met Ser Ser Gly Gly Leu Met Arg
          145          150          155          160
Gln Cys Leu Lys Leu Val Cys Cys Val Ala Val Arg Asn Cys Leu Glu
          165          170          175
Cys Arg Gln Arg Gln Arg Asp Arg Gly Asn Lys Ser Ser His Gly Ser
          180          185          190
Ser Lys Pro Gln Glu Val Pro Gln Ser Val Thr Ala Thr Ala Ala Ser
          195          200          205
Lys Thr Pro Leu Glu Asn Val Pro Gly Asn Leu Ser Pro Ile Lys Asp
          210          215          220
Pro Asp Arg Leu Leu Gln Asp Val Asp Ile Asn Arg Leu Arg Ala Val
          225          230          235          240
Val Phe

```

242

<210> 793
 <211> 412
 <212> Amino acid
 <213> Homo sapiens

<400> 793

```

Asn Ser Ser Gly Val Lys Leu Leu Gln Ala Leu Gly Leu Ser Pro Gly
 1           5           10           15
Asn Gly Lys Asp His Ser Ile Leu His Ser Arg Asn Asp Leu Glu Glu
 20           25           30
Ala Phe Ile His Phe Met Gly Lys Gly Ala Ala Ala Glu Arg Phe Phe
 35           40           45
Ser Asp Lys Glu Thr Phe His Asp Ile Ala Gln Val Ala Ser Glu Phe
 50           55           60
Pro Gly Ala Gln His Tyr Val Gly Gly Asn Ala Ala Leu Ile Gly Gln
 65           70           75           80
Lys Phe Ala Ala Asn Ser Asp Leu Lys Val Leu Leu Cys Gly Pro Val
 85           90           95
Gly Pro Lys Leu His Glu Leu Leu Asp Asp Asn Val Phe Val Pro Pro
100           105           110
Glu Ser Leu Gln Glu Val Asp Glu Phe His Leu Ile Leu Glu Tyr Gln
115           120           125
Ala Gly Glu Glu Trp Gly Gln Leu Lys Ala Pro His Ala Asn Arg Phe
130           135           140
Ile Phe Ser His Asp Leu Ser Asn Gly Ala Met Asn Met Leu Glu Val
145           150           155           160
Phe Val Ser Ser Leu Glu Glu Phe Gln Pro Asp Leu Gly Gly Leu Ser
165           170           175
Gly Leu His Met Met Glu Gly Gln Ser Lys Glu Leu Gln Arg Lys Arg
180           185           190
Leu Leu Glu Val Val Thr Ser Ile Ser Asp Ile Pro Thr Gly Ile Pro
195           200           205
Val His Leu Glu Leu Gly Ser Met Thr Asn Arg Glu Leu Met Ser Ser
210           215           220
Ile Val Leu Gln Gln Val Phe Pro Ala Val Thr Ser Leu Gly Leu Asn
225           230           235           240
Glu Gln Glu Leu Leu Phe Leu Thr Gln Ser Ala Ser Gly Pro His Ser
245           250           255
Ser Leu Ser Ser Trp Asn Gly Val Pro Asp Val Gly Met Val Ser Asp
260           265           270
Ile Leu Phe Trp Ile Leu Lys Glu His Gly Arg Ser Lys Ser Arg Ala
275           280           285
Ser Asp Leu Thr Arg Ile His Phe His Thr Leu Val Tyr His Ile Leu
290           295           300
Ala Thr Val Asp Gly His Trp Ala Asn Gln Leu Ala Ala Val Ala Ala
305           310           315           320
Gly Ala Arg Val Ala Gly Thr Gln Ala Cys Ala Thr Glu Thr Ile Asp
325           330           335
Thr Ser Arg Val Ser Leu Arg Ala Pro Gln Glu Phe Met Thr Ser His
340           345           350
Ser Glu Ala Gly Ser Arg Ile Val Leu Asn Pro Asn Lys Pro Val Val
355           360           365
Glu Trp His Arg Glu Gly Ile Ser Phe His Phe Thr Pro Val Leu Val
370           375           380
Cys Lys Asp Pro Ile Arg Thr Val Gly Leu Gly Asp Ala Ile Ser Ala
385           390           395           400
Glu Gly Leu Phe Tyr Ser Glu Val His Pro His Tyr

```

405

410

412

<210> 794
 <211> 83
 <212> Amino acid
 <213> Homo sapiens

<400> 794
 Asp Asp Ser Ser Gly Trp Gly Leu Glu Gln Leu Val Val Arg Trp Ser
 1 5 10 15
 Leu Ala Leu Trp Pro Arg Leu Glu Cys Ser Gly Met Ile Ser Ala His
 20 25 30
 Cys Asn Leu Cys Leu Leu Gly Ser Ser Asp Ser Pro Ala Ser Ala Pro
 35 40 45
 Arg Val Ala Gly Ile Thr Asp Val Cys His His Ala Trp Leu Val Phe
 50 55 60
 Val Phe Leu Val Val Met Gly Phe Pro His Val Gly His Val Gly Leu
 65 70 75 80
 Glu Leu Leu
 83

<210> 795
 <211> 391
 <212> Amino acid
 <213> Homo sapiens

<400> 795
 Leu Gly Glu Val Leu Lys Cys Gln Gln Gly Val Ser Ser Leu Ala Phe
 1 5 10 15
 Ala Leu Ala Phe Leu Gln Arg Met Asp Met Lys Pro Leu Val Val Leu
 20 25 30
 Gly Leu Pro Ala Pro Thr Ala Pro Ser Gly Cys Leu Ser Phe Trp Glu
 35 40 45
 Ala Lys Ala Gln Leu Ala Lys Ser Cys Lys Val Leu Val Asp Ala Leu
 50 55 60
 Arg His Asn Ala Ala Ala Val Pro Phe Phe Gly Gly Gly Ser Val
 65 70 75 80
 Leu Arg Ala Ala Glu Pro Ala Pro His Ala Ser Tyr Gly Gly Ile Val
 85 90 95
 Ser Val Glu Thr Asp Leu Leu Gln Trp Cys Leu Glu Ser Gly Ser Ile
 100 105 110
 Pro Ile Leu Cys Pro Ile Gly Glu Thr Ala Ala Arg Arg Ser Val Leu
 115 120 125
 Leu Asp Ser Leu Glu Val Thr Ala Ser Leu Ala Lys Ala Leu Arg Pro
 130 135 140
 Thr Lys Ile Ile Phe Leu Asn Asn Thr Gly Gly Leu Arg Asp Ser Ser
 145 150 155 160
 His Lys Val Leu Ser Asn Val Asn Leu Pro Ala Asp Leu Asp Leu Val
 165 170 175
 Cys Asn Ala Glu Trp Val Ser Thr Lys Glu Arg Gln Gln Met Arg Leu
 180 185 190
 Ile Val Asp Val Leu Ser Arg Leu Pro His His Ser Ser Ala Val Ile
 195 200 205
 Thr Ala Ala Ser Thr Leu Leu Thr Glu Leu Phe Ser Asn Lys Gly Ser

```

      210      215      220
Gly Thr Leu Phe Lys Asn Ala Glu Arg Met Leu Arg Val Arg Ser Leu
225      230      235      240
Asp Lys Leu Asp Gln Gly Arg Leu Val Asp Leu Val Asn Ala Ser Phe
      245      250      255
Gly Lys Lys Leu Arg Asp Asp Tyr Leu Ala Ser Leu Arg Pro Arg Leu
      260      265      270
His Ser Ile Tyr Val Ser Glu Gly Tyr Asn Ala Ala Ala Ile Leu Thr
      275      280      285
Met Glu Pro Val Leu Gly Gly Thr Pro Tyr Leu Asp Lys Phe Val Val
      290      295      300
Ser Ser Ser Arg Gln Gly Gln Gly Ser Gly Gln Met Leu Trp Glu Cys
305      310      315      320
Leu Arg Arg Asp Leu Gln Thr Leu Phe Trp Arg Ser Arg Val Thr Asn
      325      330      335
Pro Ile Asn Pro Trp Tyr Phe Lys His Ser Asp Gly Ser Phe Ser Asn
      340      345      350
Lys Gln Trp Ile Phe Phe Trp Phe Gly Leu Ala Asp Ile Arg Asp Ser
      355      360      365
Tyr Glu Leu Val Asn His Ala Lys Gly Leu Pro Asp Ser Phe His Lys
      370      375      380
Pro Ala Ser Asp Pro Gly Ser
385      390 391

```

<210> 796

<211> 127

<212>Amino acid

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(127)

<223> X = any amino acid or stop code

<400> 796

```

Tyr His Ala Pro Ala Leu Gln Pro Gly Gln Gln Ser Lys Thr Leu Ser
  1      5      10      15
Gln Glu Lys Lys Asn Phe Phe Arg Pro Gly Ala Val Ala His Thr Cys
      20      25      30
Asn Pro Ser Thr Leu Gly Gly Arg Gly Gly Arg Ile Thr Arg Ser Gly
      35      40      45
Asp Arg Asp His Pro Gly Xaa His Gly Glu Thr Pro Ser Leu Leu Lys
      50      55      60
Ile Gln Lys Lys Leu Ala Gly Arg Asp Gly Gly Arg Leu Xaa Ser Gln
      65      70      75      80
Leu Leu Gly Arg Leu Arg Gln Glu Asn Gly Val Asn Pro Gly Gly Gly
      85      90      95
Gly Cys Ser Glu Pro Arg Leu Arg His Cys Thr Pro Ala Trp Xaa Gln
      100      105      110
Ser Glu Thr Ile Ser Arg Lys Lys Arg Lys Lys Glu Arg Lys Tyr
      115      120      125      127

```

<210> 797

<211> 159

<212>Amino acid

<213> Homo sapiens

<400> 797

```

Phe Arg Pro Ile Gly Ile Ile Arg Gln Ala Leu Cys Ser Ala Asp Gly
 1           5           10           15
His Gln Arg Arg Ile Leu Thr Leu Arg Leu Gly Leu Leu Val Ile Pro
          20           25           30
Phe Leu Pro Ala Ser Asn Leu Phe Phe Arg Val Gly Phe Val Val Pro
          35           40           45
Ser Val Gly Cys Cys Val Met Leu Leu Phe Gly Phe Gly Ala Leu Arg
          50           55           60
Lys His Thr Glu Lys Lys Lys Leu Ile Ala Ala Val Val Leu Gly Ile
          65           70           75           80
Leu Leu Ser Asn Asp Ala Glu Arg Leu Arg Cys Ala Val Arg Gly Gly
          85           90           95
Glu Trp Arg Ser Glu Glu Ala Val Phe Arg Gly Ala Val Ser Val Cys
          100          105          110
Pro Leu Ser Ala Glu Val Arg Cys Asn Ile Gly Arg Asn Leu Ala Ala
          115          120          125
Lys Gly Asn Gln Thr Gly Ala Ile Arg Tyr His Arg Glu Ala Val Ser
          130          135          140
Leu Asn Pro Lys Thr Lys Ser Ser Thr Arg Glu Phe Arg Pro Cys
          145          150          155          159

```

<210> 798

<211> 236

<212>Amino acid

<213> Homo sapiens

<400> 798

```

Lys Ile Ala Asp Phe Gly Phe Ser Asn Leu Phe Thr Pro Gly Gln Leu
 1           5           10           15
Leu Lys Thr Trp Cys Gly Ser Pro Pro Tyr Ala Ala Pro Glu Leu Phe
          20           25           30
Glu Gly Lys Glu Tyr Asp Gly Pro Lys Val Asp Ile Trp Ser Leu Gly
          35           40           45
Val Val Leu Tyr Val Leu Val Cys Gly Ala Leu Pro Phe Asp Gly Ser
          50           55           60
Thr Leu Gln Asn Leu Arg Ala Arg Val Leu Ser Gly Lys Phe Arg Ile
          65           70           75           80
Pro Phe Phe Met Ser Thr Glu Cys Glu His Leu Ile Arg His Met Leu
          85           90           95
Val Leu Asp Pro Asn Lys Arg Leu Ser Met Glu Gln Ile Cys Lys His
          100          105          110
Lys Trp Met Lys Leu Gly Asp Ala Asp Pro Asn Phe Asp Arg Leu Ile
          115          120          125
Ala Glu Cys Gln Gln Leu Lys Glu Glu Arg Gln Val Asp Pro Leu Asn
          130          135          140
Glu Asp Val Leu Leu Ala Met Glu Asp Met Gly Leu Asp Lys Glu Gln
          145          150          155          160
Thr Leu Gln Ser Leu Arg Ser Asp Ala Tyr Asp His Tyr Ser Ala Ile
          165          170          175
Tyr Ser Leu Leu Cys Asp Arg His Lys Arg His Lys Thr Leu Arg Leu
          180          185          190
Gly Ala Leu Pro Ser Met Pro Arg Ala Leu Gly Leu Ser Ser Thr Ser
          195          200          205
Gln Tyr Pro Ala Glu Gln Ala Gly Thr Ala Met Asn Ile Ser Val Pro
          210          215          220

```

Gln Val Gln Leu Ile Asn Pro Glu Asn Gln Ile Val
 225 230 235 236

<210> 799
 <211> 114
 <212>Amino acid
 <213> Homo sapiens
 <220>
 <221> misc_feature
 <222> (1)...(114)
 <223> X = any amino acid or stop code

<400> 799
 Ala Arg Glu Phe Leu Gly His Arg Ala Ser Ile Thr Trp Ser Xaa Ala
 1 5 10 15
 Arg Val His His Arg Phe Pro Lys Ala Glu Val Ala Xaa Pro Ser Leu
 20 25 30
 Leu Arg Thr Asp Leu Thr Glu Asp Arg Thr Lys Cys Cys His Gly Asp
 35 40 45
 Leu Leu Glu Cys Ala Asp Asp Arg Ala Asp Leu Val Glu Asp Ile Trp
 50 55 60
 Glu Asn Gln Asp Ser Ile Ser Thr Ile Leu Ile Glu Cys Cys Glu Lys
 65 70 75 80
 Pro Leu Leu Glu Lys Ser His Cys Ile Ala Glu Val Glu Asn Asp Glu
 85 90 95
 Met Pro Ala Asp Leu Pro Ser Leu Ala Ala Asp Phe Val Glu Ser Lys
 100 105 110
 Asp Val
 114

<210> 800
 <211> 328
 <212>Amino acid
 <213> Homo sapiens
 <220>
 <221> misc_feature
 <222> (1)...(328)
 <223> X = any amino acid or stop code

<400> 800
 Val Pro Pro Lys Met Lys Arg Gly Thr Ser Leu His Ser Arg Arg Gly
 1 5 10 15
 Lys Pro Glu Ala Pro Lys Gly Ser Pro Gln Ile Asn Arg Lys Ser Gly
 20 25 30
 Gln Glu Met Thr Ala Val Met Gln Ser Gly Arg Pro Arg Ser Ser Ser
 35 40 45
 Thr Thr Asp Ala Pro Thr Gly Ser Ala Met Met Glu Ile Ala Cys Ala
 50 55 60
 Ala Ala Ala Ala Ala Ala Cys Leu Pro Gly Glu Glu Gly Thr Ala
 65 70 75 80
 Glu Arg Ile Glu Arg Leu Glu Val Ser Ser Leu Ala Gln Thr Ser Ser
 85 90 95

Ala Val Ala Ser Ser Thr Asp Gly Ser Ile His Thr Asp Ser Val Asp
 100 105 110
 Gly Thr Pro Asp Pro Gln Arg Thr Lys Ala Ala Ile Ala His Leu Gln
 115 120 125
 Gln Lys Ile Leu Lys Leu Thr Glu Gln Ile Lys Ile Ala Gln Thr Ala
 130 135 140
 Arg Arg Asn Arg Arg Pro Gly Ser Xaa Lys Asp Cys Thr Pro Xaa Lys
 145 150 155 160
 Cys Leu Arg Lys Ser Asp Glu Ala Leu Asn Arg Val Leu Gln Gln Ile
 165 170 175
 Arg Val Pro Pro Lys Met Lys Arg Gly Thr Ser Leu His Ser Arg Arg
 180 185 190
 Gly Lys Pro Glu Ala Pro Lys Gly Ser Pro Gln Ile Asn Arg Lys Ser
 195 200 205
 Gly Gln Glu Met Thr Ala Val Met Gln Ser Gly Arg Pro Arg Ser Ser
 210 215 220
 Ser Thr Thr Asp Ala Pro Thr Gly Ser Ala Met Met Glu Ile Ala Cys
 225 230 235 240
 Ala Ala Ala Ala Ala Ala Ala Cys Leu Pro Gly Glu Glu Gly Thr
 245 250 255
 Ala Glu Arg Ile Glu Arg Leu Glu Val Ser Ser Leu Ala Gln Thr Ser
 260 265 270
 Ser Ala Val Ala Ser Ser Thr Asp Gly Ser Ile His Thr Asp Ser Val
 275 280 285
 Asp Gly Thr Pro Asp Pro Gln Arg Thr Lys Ala Ala Ile Ala His Leu
 290 295 300
 Gln Gln Lys Ile Leu Lys Leu Thr Glu Gln Ile Lys Ile Ala Gln Thr
 305 310 315 320
 Ala Arg Arg Asn Arg Arg Pro Gly
 325 328

<210> 801
 <211> 356
 <212> Amino acid
 <213> Homo sapiens

<400> 801
 Met Gln Thr Ile Glu Arg Leu Val Lys Glu Arg Asp Asp Leu Met Ser
 1 5 10 15
 Ala Leu Val Ser Val Arg Ser Ser Leu Ala Asp Thr Gln Gln Arg Glu
 20 25 30
 Ala Ser Ala Tyr Glu Gln Val Lys Gln Val Leu Gln Ile Ser Glu Glu
 35 40 45
 Ala Asn Phe Glu Lys Thr Lys Ala Leu Ile Gln Cys Asp Gln Leu Arg
 50 55 60
 Lys Glu Leu Glu Arg Gln Ala Glu Arg Leu Glu Lys Glu Leu Ala Ser
 65 70 75 80
 Gln Gln Glu Lys Arg Ala Ile Glu Lys Asp Met Met Lys Lys Glu Ile
 85 90 95
 Thr Lys Glu Arg Glu Tyr Met Gly Ser Lys Met Leu Ile Leu Ser Gln
 100 105 110
 Asn Ile Ala Gln Leu Glu Ala Gln Val Glu Lys Val Thr Lys Glu Lys
 115 120 125
 Ile Ser Ala Ile Asn Gln Leu Glu Glu Ile Gln Ser Gln Leu Ala Ser
 130 135 140
 Arg Glu Met Asp Val Thr Lys Val Cys Gly Glu Met Arg Tyr Gln Leu
 145 150 155 160
 Asn Lys Thr Asn Met Glu Lys Asp Glu Ala Glu Lys Glu His Arg Glu
 165 170 175

Phe Arg Ala Lys Thr Asn Arg Asp Leu Glu Ile Lys Asp Gln Glu Ile
 180 185 190
 Glu Lys Leu Arg Ile Glu Leu Asp Glu Ser Lys Gln His Leu Glu Gln
 195 200 205
 Glu Gln Gln Lys Ala Ala Leu Ala Arg Glu Glu Cys Leu Arg Leu Thr
 210 215 220
 Glu Leu Leu Gly Glu Ser Glu His Gln Leu His Leu Thr Arg Gln Glu
 225 230 235 240
 Lys Asp Ser Ile Gln Gln Ser Phe Ser Lys Glu Ala Lys Ala Gln Ala
 245 250 255
 Leu Gln Ala Gln Gln Arg Glu Gln Glu Leu Thr Gln Lys Ile Gln Gln
 260 265 270
 Met Glu Ala Gln His Asp Lys Thr Glu Asn Glu Gln Tyr Leu Leu Leu
 275 280 285
 Thr Ser Gln Asn Thr Phe Leu Thr Lys Leu Lys Glu Glu Cys Cys Thr
 290 295 300
 Leu Ala Lys Lys Leu Glu Gln Ile Ser Gln Lys Thr Arg Ser Glu Ile
 305 310 315 320
 Ala Gln Leu Ser Gln Glu Lys Arg Tyr Thr Tyr Asp Lys Leu Gly Lys
 325 330 335
 Leu Gln Arg Arg Asn Glu Glu Leu Glu Glu Gln Cys Val Gln His Gly
 340 345 350
 Arg Ser Thr *
 355

<210> 802
 <211> 210
 <212> Amino acid
 <213> Homo sapiens

<400> 802
 Ser Tyr Pro Val Trp Trp Asn Ser Pro Leu Thr Ala Glu Val Pro Pro
 1 5 10 15
 Glu Leu Leu Ala Ala Ala Gly Phe Phe His Thr Gly His Gln Asp Lys
 20 25 30
 Val Arg Cys Phe Phe Cys Tyr Gly Gly Leu Gln Ser Trp Lys Arg Gly
 35 40 45
 Asp Asp Pro Trp Thr Glu His Ala Lys Trp Phe Pro Ser Cys Gln Phe
 50 55 60
 Leu Leu Arg Ser Lys Gly Arg Asp Phe Val His Ser Val Gln Glu Thr
 65 70 75 80
 His Ser Gln Leu Leu Gly Ser Trp Asp Pro Trp Glu Glu Pro Glu Asp
 85 90 95
 Ala Ala Pro Val Ala Pro Ser Val Pro Ala Ser Gly Tyr Pro Glu Leu
 100 105 110
 Pro Thr Pro Arg Arg Glu Val Gln Ser Glu Ser Ala Gln Glu Pro Gly
 115 120 125
 Gly Val Ser Pro Ala Glu Ala Gln Arg Ala Trp Trp Val Leu Glu Pro
 130 135 140
 Pro Gly Ala Arg Asp Val Glu Ala Gln Leu Arg Arg Leu Gln Glu Glu
 145 150 155 160
 Arg Thr Cys Lys Val Cys Leu Asp Arg Ala Val Ser Ile Val Phe Val
 165 170 175
 Pro Cys Gly His Leu Val Cys Ala Glu Cys Ala Pro Gly Leu Gln Leu
 180 185 190
 Cys Pro Ile Cys Arg Ser Pro Cys Gly Pro Leu Arg Pro Cys Leu Trp
 195 200 205
 Val Pro
 210

<210> 803
 <211> 130
 <212>Amino acid
 <213> Homo sapiens

<400> 803
 Met Cys Ser Tyr Arg Glu Lys Lys Ala Glu Pro Gln Glu Leu Leu Gln
 1 5 10 15
 Leu Asp Gly Tyr Thr Val Asp Tyr Thr Asp Pro Gln Pro Gly Leu Glu
 20 25 30
 Gly Gly Arg Ala Phe Phe Asn Ala Val Lys Glu Gly Asp Thr Val Ile
 35 40 45
 Phe Ala Ser Asp Asp Glu Gln Asp Arg Ile Leu Trp Val Gln Ala Met
 50 55 60
 Tyr Arg Ala Thr Gly Gln Ser His Lys Pro Val Pro Pro Thr Gln Val
 65 70 75 80
 Gln Lys Leu Asn Ala Lys Gly Gly Asn Val Pro Gln Leu Asp Ala Pro
 85 90 95
 Ile Ser Gln Phe Tyr Ala Asp Arg Ala Gln Lys His Gly Met Asp Glu
 100 105 110
 Phe Ile Ser Ser Asn Pro Cys Asn Phe Asp His Ala Ser Leu Phe Glu
 115 120 125
 Met *
 129

<210> 804
 <211> 458
 <212>Amino acid
 <213> Homo sapiens

<400> 804
 Lys Gln Leu Ile Val Leu Gly Asn Lys Val Asp Leu Leu Pro Gln Asp
 1 5 10 15
 Ala Pro Gly Tyr Arg Gln Arg Leu Arg Glu Arg Leu Trp Glu Asp Cys
 20 25 30
 Ala Arg Ala Gly Leu Leu Leu Ala Pro Gly His Gln Gly Pro Gln Arg
 35 40 45
 Pro Val Lys Asp Glu Pro Gln Asp Gly Glu Asn Pro Asn Pro Pro Asn
 50 55 60
 Trp Ser Arg Thr Val Val Arg Asp Val Arg Leu Ile Ser Ala Lys Thr
 65 70 75 80
 Gly Tyr Gly Val Glu Glu Leu Ile Ser Ala Leu Gln Arg Ser Trp Arg
 85 90 95
 Tyr Arg Gly Asp Val Tyr Leu Val Gly Ala Thr Asn Ala Gly Lys Ser
 100 105 110
 Thr Leu Phe Asn Thr Leu Leu Glu Ser Asp Tyr Cys Thr Ala Lys Gly
 115 120 125
 Ser Glu Ala Ile Asp Arg Ala Thr Ile Ser Pro Trp Pro Gly Thr Thr
 130 135 140
 Leu Asn Leu Leu Lys Phe Pro Ile Cys Asn Pro Thr Pro Tyr Arg Met
 145 150 155 160
 Phe Lys Arg His Gln Arg Leu Lys Lys Asp Ser Thr Gln Ala Glu Glu
 165 170 175

```

Asp Leu Ser Glu Gln Glu Gln Asn Gln Leu Asn Val Leu Lys Lys His
      180      185      190
Gly Tyr Val Val Gly Arg Val Gly Arg Thr Phe Leu Tyr Ser Glu Glu
      195      200      205
Gln Lys Asp Asn Ile Pro Phe Glu Phe Asp Ala Asp Ser Leu Ala Phe
      210      215      220
Asp Met Glu Asn Asp Pro Val Met Gly Thr His Lys Ser Thr Lys Gln
      225      230      235      240
Val Glu Leu Thr Ala Gln Asp Val Lys Asp Ala His Trp Phe Tyr Asp
      245      250      255
Thr Pro Gly Ile Thr Lys Glu Asn Cys Ile Leu Asn Leu Leu Thr Glu
      260      265      270
Lys Glu Val Asn Ile Val Leu Pro Thr Gln Ser Ile Val Pro Arg Thr
      275      280      285
Phe Val Leu Lys Pro Gly Met Val Leu Phe Leu Gly Ala Ile Gly Arg
      290      295      300
Ile Asp Phe Leu Gln Gly Asn Gln Ser Ala Trp Phe Thr Val Val Ala
      305      310      315      320
Ser Asn Ile Leu Pro Val His Ile Thr Ser Leu Asp Arg Ala Asp Ala
      325      330      335
Leu Tyr Gln Lys His Ala Gly His Thr Leu Leu Gln Ile Pro Met Gly
      340      345      350
Gly Lys Glu Arg Met Ala Gly Phe Pro Pro Leu Val Ala Glu Asp Ile
      355      360      365
Met Leu Lys Glu Gly Leu Gly Ala Ser Glu Ala Val Ala Asp Ile Lys
      370      375      380
Phe Ser Ser Ala Gly Trp Val Ser Val Thr Pro Asn Phe Lys Asp Arg
      385      390      395      400
Leu His Leu Arg Gly Tyr Thr Pro Glu Gly Thr Val Leu Thr Val Arg
      405      410      415
Pro Pro Leu Leu Pro Tyr Ile Val Asn Ile Lys Gly Gln Arg Ile Lys
      420      425      430
Lys Ser Val Ala Tyr Lys Thr Lys Lys Pro Pro Ser Leu Met Tyr Asn
      435      440      445
Val Arg Lys Lys Lys Gly Lys Ile Asn Val
      450      455      458

```

<210> 805
 <211> 290
 <212> Amino acid
 <213> Homo sapiens

<400> 805

```

Ser Thr Val Ala Ser Met Met His Arg Gln Glu Thr Val Glu Cys Leu
  1      5      10      15
Arg Lys Phe Asn Ala Arg Arg Lys Leu Lys Gly Ala Ile Leu Thr Thr
      20      25      30
Met Leu Val Ser Arg Asn Phe Ser Ala Ala Lys Ser Leu Leu Asn Lys
      35      40      45
Lys Ser Asp Gly Gly Val Lys Pro Gln Ser Asn Asn Lys Asn Ser Leu
      50      55      60
Val Ser Pro Ala Gln Glu Pro Ala Pro Leu Gln Thr Ala Met Glu Pro
      65      70      75      80
Gln Thr Thr Val Val His Asn Ala Thr Asp Gly Ile Lys Gly Ser Thr
      85      90      95
Glu Ser Cys Asn Thr Thr Thr Glu Asp Glu Asp Leu Lys Ala Ala Pro
      100      105      110
Leu Arg Thr Gly Asn Gly Ser Ser Val Pro Glu Gly Arg Ser Ser Arg
      115      120      125

```

```

Asp Arg Thr Ala Pro Ser Ala Gly Met Gln Pro Gln Pro Ser Leu Cys
130      135      140
Ser Ser Ala Met Arg Lys Gln Glu Ile Ile Lys Ile Thr Glu Gln Leu
145      150      155      160
Ile Glu Ala Ile Asn Asn Gly Asp Phe Glu Ala Tyr Thr Lys Ile Cys
      165      170      175
Asp Pro Gly Leu Thr Ser Phe Glu Pro Glu Ala Leu Gly Asn Leu Val
      180      185      190
Glu Gly Met Asp Phe His Lys Phe Tyr Phe Glu Asn Leu Ser Lys
      195      200      205
Asn Ser Lys Pro Ile His Thr Thr Ile Leu Asn Pro His Val His Val
      210      215      220
Ile Gly Glu Asp Ala Ala Cys Ile Ala Tyr Ile Arg Leu Thr Gln Tyr
225      230      235      240
Ile Asp Gly Gln Gly Arg Pro Ser Asn Pro Ala Lys Ser Glu Glu Thr
      245      250      255
Arg Val Trp His Arg Arg Asp Gly Lys Trp Leu Asn Val His Tyr His
      260      265      270
Cys Ser Gly Ala Pro Cys Pro His Arg Cys Ser Glu Leu Ser His Arg
      275      280      285
Gly Phe
      290

```

```

<210> 806
<211> 570
<212>Amino acid
<213> Homo sapiens

```

```

<400> 806
Leu Pro Lys Asn Val Val Phe Val Leu Asp Ser Ser Ala Ser Met Val
1      5      10      15
Gly Thr Lys Leu Arg Gln Thr Lys Asp Ala Leu Phe Thr Ile Leu His
      20      25      30
Asp Leu Arg Pro Gln Asp Arg Phe Ser Ile Ile Gly Phe Ser Asn Arg
      35      40      45
Ile Lys Val Trp Lys Asp His Leu Ile Ser Val Thr Pro Asp Ser Ile
      50      55      60
Arg Asp Gly Lys Val Tyr Ile His His Met Ser Pro Thr Gly Gly Thr
      65      70      75      80
Asp Ile Asn Gly Ala Leu Gln Arg Ala Ile Arg Leu Leu Asn Lys Tyr
      85      90      95
Val Ala His Ser Gly Ile Gly Asp Arg Arg Val Ser Leu Ile Val Phe
      100      105      110
Leu Thr Asp Gly Lys Pro Thr Val Gly Glu Thr His Thr Leu Lys Ile
      115      120      125
Leu Asn Asn Thr Arg Glu Ala Ala Arg Gly Gln Val Cys Ile Phe Thr
      130      135      140
Ile Gly Ile Gly Asn Asp Val Asp Phe Arg Leu Leu Glu Lys Leu Ser
      145      150      155      160
Leu Glu Asn Cys Gly Leu Thr Arg Arg Val His Glu Glu Glu Asp Ala
      165      170      175
Gly Ser Gln Leu Ile Gly Phe Tyr Asp Glu Ile Arg Thr Pro Leu Leu
      180      185      190
Ser Asp Ile Arg Ile Asp Tyr Pro Pro Ser Ser Val Val Gln Ala Thr
      195      200      205
Lys Thr Leu Phe Pro Asn Tyr Phe Asn Gly Ser Glu Ile Ile Ile Ala
      210      215      220
Gly Lys Leu Val Asp Arg Lys Leu Asp His Leu His Val Glu Val Thr
      225      230      235      240

```

Ala Ser Asn Ser Lys Lys Phe Ile Ile Leu Lys Thr Asp Val Pro Val
 245 250 255
 Arg Pro Gln Lys Ala Gly Lys Asp Val Thr Gly Ser Pro Arg Pro Gly
 260 265 270
 Gly Asp Gly Glu Gly Asp Thr Asn His Ile Glu Arg Leu Trp Ser Tyr
 275 280 285
 Leu Thr Thr Lys Glu Leu Leu Ser Ser Trp Leu Gln Ser Asp Asp Glu
 290 295 300
 Pro Glu Lys Glu Arg Leu Arg Gln Arg Ala Gln Ala Leu Ala Val Ser
 305 310 315 320
 Tyr Arg Phe Leu Thr Pro Phe Thr Ser Met Lys Leu Arg Gly Pro Val
 325 330 335
 Pro Arg Met Asp Gly Leu Glu Glu Ala His Gly Met Ser Ala Ala Met
 340 345 350
 Gly Pro Glu Pro Val Val Gln Ser Val Arg Gly Ala Gly Thr Gln Pro
 355 360 365
 Gly Pro Leu Leu Lys Lys Pro Tyr Gln Pro Arg Ile Lys Ile Ser Lys
 370 375 380
 Thr Ser Val Asp Gly Asp Pro His Phe Val Val Asp Phe Pro Leu Ser
 385 390 395 400
 Arg Leu Thr Val Cys Phe Asn Ile Asp Gly Gln Pro Gly Asp Ile Leu
 405 410 415
 Arg Leu Val Ser Asp His Arg Asp Ser Gly Val Thr Val Asn Gly Glu
 420 425 430
 Leu Ile Gly Ala Pro Ala Pro Pro Asn Gly His Lys Lys Gln Arg Thr
 435 440 445
 Tyr Leu Arg Thr Ile Thr Ile Leu Ile Asn Lys Pro Glu Arg Ser Tyr
 450 455 460
 Leu Glu Ile Thr Pro Ser Arg Val Ile Leu Asp Gly Gly Asp Arg Leu
 465 470 475 480
 Val Leu Pro Cys Asn Gln Ser Val Val Val Gly Ser Trp Gly Leu Glu
 485 490 495
 Val Ser Val Ser Ala Asn Ala Asn Val Thr Val Thr Ile Gln Gly Ser
 500 505 510
 Ile Ala Phe Val Ile Leu Ile His Leu Tyr Lys Lys Pro Ala Pro Phe
 515 520 525
 Gln Arg His His Leu Gly Phe Tyr Ile Ala Asn Ser Glu Gly Leu Ser
 530 535 540
 Ser Asn Cys Arg Val Phe Cys Glu Ser Gly Ile Leu Ile Gln Glu Leu
 545 550 555 560
 Thr Gln Gln Ser Val Ala Val Ala Gly Arg
 565 570

<210> 807

<211> 279

<212>Amino acid

<213> Homo sapiens

<400> 807

Phe Phe Leu Glu Gln Val Ser Gln Tyr Thr Phe Ala Met Cys Ser Tyr
 1 5 10 15
 Arg Glu Lys Lys Ser Glu Pro Gln Glu Leu Met Gln Leu Glu Gly Tyr
 20 25 30
 Thr Val Asp Tyr Thr Asp Pro His Pro Gly Leu Gln Gly Gly Cys Met
 35 40 45
 Phe Phe Asn Ala Val Lys Glu Gly Asp Thr Val Ile Phe Ala Ser Asp
 50 55 60
 Asp Glu Gln Asp Arg Ile Leu Trp Val Gln Ala Met Tyr Arg Ala Thr
 65 70 75 80

```

Gly Gln Ser Tyr Lys Pro Val Pro Ala Ile Gln Thr Gln Lys Leu Asn
      85                      90                      95
Pro Lys Gly Gly Thr Leu His Ala Asp Ala Gln Leu Tyr Ala Asp Arg
      100                      105                      110
Phe Gln Lys His Gly Met Asp Glu Phe Ile Ser Ala Asn Pro Cys Lys
      115                      120                      125
Leu Asp His Ala Phe Leu Phe Arg Ile Leu Gln Arg Gln Thr Leu Asp
      130                      135                      140
His Arg Leu Asn Asp Ser Tyr Ser Cys Leu Gly Trp Phe Ser Pro Gly
145                      150                      155                      160
Gln Val Phe Val Leu Asp Glu Tyr Cys Ala Arg Tyr Gly Val Arg Gly
      165                      170                      175
Cys His Arg His Leu Cys Tyr Leu Ala Glu Leu Met Glu His Ser Glu
      180                      185                      190
Asn Gly Ala Val Ile Asp Pro Thr Leu Leu His Tyr Ser Phe Ala Phe
      195                      200                      205
Cys Ala Ser His Val His Gly Asn Arg Pro Asp Gly Ile Gly Thr Val
      210                      215                      220
Ser Val Glu Glu Lys Glu Arg Phe Glu Glu Ile Lys Glu Arg Leu Ser
225                      230                      235                      240
Ser Leu Leu Glu Asn Gln Ile Ser His Phe Arg Tyr Cys Phe Pro Phe
      245                      250                      255
Gly Arg Pro Glu Gly Ala Leu Lys Ala Thr Leu Ser Leu Leu Glu Arg
      260                      265                      270
Val Leu Met Lys Asp Ile Ala
      275                      279

```

```

<210> 808
<211> 251
<212> Amino acid
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(251)
<223> X = any amino acid or stop code

```

```

<400> 808
Asp Gly Leu Leu His Glu Val Leu Asn Gly Leu Leu Asp Arg Pro Asp
 1                      5                      10                      15
Trp Glu Glu Ala Val Lys Met Pro Val Gly Ile Leu Pro Cys Gly Ser
      20                      25                      30
Gly Asn Ala Leu Ala Gly Ala Val Asn Gln His Gly Gly Phe Glu Pro
      35                      40                      45
Ala Leu Gly Leu Asp Leu Leu Leu Asn Cys Ser Leu Leu Leu Cys Arg
      50                      55                      60
Gly Gly Gly His Pro Leu Asp Leu Leu Ser Val Thr Leu Ala Ser Gly
      65                      70                      75                      80
Ser Arg Cys Phe Ser Phe Leu Ser Val Ala Trp Gly Phe Val Ser Asp
      85                      90                      95
Val Asp Ile Gln Ser Glu Arg Phe Arg Ala Leu Gly Ser Ala Arg Phe
      100                      105                      110
Thr Leu Gly Thr Val Leu Gly Leu Ala Thr Leu His Thr Tyr Arg Gly
      115                      120                      125
Arg Leu Ser Tyr Leu Pro Ala Thr Val Glu Pro Ala Ser Pro Thr Pro
      130                      135                      140
Ala His Ser Leu Pro Arg Ala Lys Ser Glu Leu Thr Leu Thr Pro Asp
145                      150                      155                      160
Pro Ala Pro Pro Met Ala His Ser Pro Leu His Arg Ser Val Ser Asp

```

```

                165                170                175
Leu Pro Leu Pro Leu Pro Gln Pro Ala Leu Ala Ser Pro Gly Ser Pro
                180                185                190
Glu Pro Leu Pro Ile Leu Ser Leu Asn Gly Gly Gly Pro Glu Leu Ala
                195                200                205
Gly Asp Trp Gly Gly Ala Gly Asp Ala Pro Leu Ser Pro Asp Pro Gln
                210                215                220
Leu Ser Ser Pro Pro Gly Ser Pro Lys Ala Ala Leu His Ser Pro Val
225                230                235                240
Xaa Lys Lys Ala Pro Val Ile Pro Pro Asp Met
                245                250 251

```

<210> 809
 <211> 174
 <212>Amino acid
 <213> Homo sapiens

```

    <400> 809
Lys Gly Val Pro Thr Leu Leu Met Ala Ala Gly Ser Phe Tyr Asp Ile
  1                5                10                15
Leu Ala Ile Thr Gly Phe Asn Thr Cys Leu Gly Ile Ala Phe Ser Thr
                20                25                30
Gly Ser Thr Val Phe Asn Val Leu Arg Gly Val Leu Glu Val Val Ile
                35                40                45
Gly Val Ala Thr Gly Ser Val Leu Gly Phe Phe Ile Gln Tyr Phe Pro
                50                55                60
Ser Arg Asp Gln Asp Lys Leu Val Cys Lys Arg Thr Phe Leu Val Leu
                65                70                75                80
Gly Leu Ser Val Leu Ala Val Phe Ser Ser Val His Phe Gly Phe Pro
                85                90                95
Gly Ser Gly Gly Leu Cys Thr Leu Val Met Ala Phe Leu Ala Gly Met
                100                105                110
Gly Trp Thr Ser Glu Lys Ala Glu Val Glu Lys Ile Ile Ala Val Ala
                115                120                125
Trp Asp Ile Phe Gln Pro Leu Leu Phe Gly Leu Ile Gly Ala Glu Val
                130                135                140
Ser Ile Ser Ser Leu Arg Pro Glu Thr Val Gly Leu Cys Val Ala Thr
245                150                155                160
Val Gly Ile Ala Val Leu Ile Arg Ile Phe Asp Tyr Ile Phe
                165                170                174

```

<210> 810
 <211> 104
 <212>Amino acid
 <213> Homo sapiens

```

    <400> 810
Leu Leu Lys Glu Val Val Val Gln Ala Ser Pro Val Cys Lys Thr Cys
  1                5                10                15
Cys Ser Gln Leu Val Arg Thr Pro Val Thr Phe Thr Glu Val Gln Asn
                20                25                30
Val Cys Arg Cys Ser Ala Gly Tyr Leu Ile Ser Val Cys Ser Tyr Thr
                35                40                45
Ser Ser Asp His Asn Gln Cys Tyr Ala Gly Thr Ala Ser Leu Ala Leu

```

```

      50              55              60
Leu Trp Ile Gly Gly Ile Leu Lys Gly Cys Leu Leu Trp Lys Gln Phe
 65              70              75              80
Arg Trp Thr Glu Arg Ser His Trp Asn Phe Gly Tyr Trp Ala Leu Trp
      85              90              95
Ser Pro Gly Asn Gly Asn Gly Cys
      100              104

```

<210> 811
 <211> 77
 <212> Amino acid
 <213> Homo sapiens

```

      <400> 811
Ile Cys Thr Ser Thr Tyr Leu Gln Ile Phe Pro Gly Lys Pro Ser Cys
 1              5              10              15
Phe Met Cys Lys Gly Arg Leu Met Cys Ile Tyr Phe Ile Leu Trp Tyr
      20              25              30
Leu Gly His Tyr Thr Ser Leu His Trp Asn Trp Cys Arg Tyr Ile Ser
      35              40              45
Asp Pro Asn Val Asp Ala Cys Pro Asp Pro Arg Asn Ala Glu Val Ser
      50              55              60
Met Thr His Thr Val Pro Ala Leu Met Glu Leu Ile Asp
 65              70              75              77

```

<210> 812
 <211> 194
 <212> Amino acid
 <213> Homo sapiens

```

      <400> 812
Leu Glu Ser Leu Pro Gly Phe Lys Glu Ile Val Ser Arg Gly Val Lys
 1              5              10              15
Val Asp Tyr Leu Thr Pro Asp Phe Pro Ser Leu Ser Tyr Pro Asn Tyr
      20              25              30
Tyr Thr Leu Met Thr Gly Arg His Cys Glu Val His Gln Met Ile Gly
      35              40              45
Asn Tyr Met Trp Asp Pro Thr Thr Asn Lys Ser Phe Asp Ile Gly Val
      50              55              60
Asn Lys Asp Ser Leu Met Pro Leu Trp Trp Asn Gly Ser Glu Pro Leu
 65              70              75              80
Trp Val Thr Leu Thr Lys Ala Lys Arg Lys Val Tyr Met Tyr Tyr Trp
      85              90              95
Pro Gly Cys Glu Val Glu Ile Leu Gly Val Arg Pro Thr Tyr Cys Leu
      100              105              110
Glu Tyr Lys Asn Val Pro Thr Asp Ile Asn Phe Ala Asn Ala Val Ser
      115              120              125
Asp Ala Leu Asp Ser Phe Lys Ser Gly Arg Ala Asp Leu Ala Ala Ile
      130              135              140
Tyr His Glu Arg Ile Asp Val Glu Gly His His Tyr Gly Pro Ala Ser
 145              150              155              160
Pro Gln Arg Lys Asp Ala Leu Lys Ala Val Asp Thr Val Leu Lys Tyr
      165              170              175
Met Thr Lys Trp Ile Gln Glu Arg Gly Leu Gln Asp Arg Leu Asn Val

```

Ile Ile 180 185 190
194

<210> 813
<211> 116
<212> Amino acid
<213> Homo sapiens

<220> .
<221> misc_feature
<222> (1)...(116)
<223> X = any amino acid or stop code

<400> 813
Ala Arg Asp Phe His Pro Lys Gln Thr Leu Asp Phe Leu Arg Ser Asp
1 5 10 15
Met Ala Asn Ser Lys Ile Thr Glu Glu Val Lys Arg Ser Ile Ala Gln
20 25 30
Gln Tyr Leu Asp Leu Thr Val Ala Leu Glu Gln Val Asp Pro Asp Ala
35 40 45
Glu Val Asp Ala Ala Pro Ser Thr Thr Ser Ser Cys Gly His Xaa Asp
50 55 60
Ser His Ala Gly Ser Xaa Arg Val Leu Ser Leu Leu Gly Asp Xaa Gly
65 70 75 80
Pro Ala Xaa Thr Gly Ala Asn Ser Met Ala Gly Lys Leu Leu Leu Val
85 90 95
Ala Trp Leu Gly Phe Pro Asp Pro Phe Trp Gly Lys Glu Leu Ser Asp
100 105 110
Pro Ala Phe Lys
115 116

<210> 814
<211> 121
<212> Amino acid
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(121)
<223> X = any amino acid or stop code

<400> 814
Lys Gln Ser Gly Asp Val Thr Cys Asn Cys Thr Asp Gly Arg Leu Ala
1 5 10 15
Pro Ser Cys Leu Thr Cys Val Gly His Cys Ile Phe Gly Gly Tyr Cys
20 25 30
Thr Met Asn Ser Lys Met Met Pro Glu Cys Gln Ser Pro Pro His Met
35 40 45
Thr Gly Pro Arg Cys Glu Glu His Val Phe Ser Gln His Gln Pro Gly
50 55 60
His Ile Thr Ser Ile Leu Ile Pro Met Leu Xaa Leu Leu Leu Val
65 70 75 80
Leu Val Ala Gly Val Ile Phe Cys His Lys Arg Arg Val Gln Gly Ala

```

      85      90      95
Lys Gly Phe Gln His Gln Arg Met Thr Asn Gly Ala Met Asn Ala Gln
      100      105      110
Ile Ala Asn Pro Thr Tyr Lys Met Tyr
      115      120 121

```

```

<210> 815
<211> 86
<212>Amino acid
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(86)
<223> X = any amino acid or stop code

```

```

<400> 815
Thr Val Glu Asn Ala Gly Arg Trp Leu Xaa Glu Glu Ala Glu Ile Gln
.1      5      10      15
Ala Glu Leu Glu Arg Leu Glu Arg Val Arg Asn Leu His Ile Arg Glu
      20      25      30
Leu Lys Arg Ile Asn Asn Glu Asp Asn Ser Gln Phe Lys Asp His Pro
      35      40      45
Thr Leu Asn Glu Arg Tyr Leu Leu Leu His Leu Leu Gly Arg Gly Gly
      50      55      60
Phe Ser Glu Val Tyr Lys Val Met Tyr Gly Leu Phe Trp Phe Phe Tyr
      65      70      75      80
Thr Asn Val Ala Arg Ile
      85 86

```

```

<210> 816
<211> 130
<212>Amino acid
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(130)
<223> X = any amino acid or stop code

```

```

<400> 816
Met Cys Glu Glu Phe Leu Val Met Gly Lys Gly Cys Ser Cys Val Phe
1      5      10      15
Xaa Ile Leu Leu Ser Asn Pro Gln Met Trp Trp Leu Asn Asp Ser Asn
      20      25      30
Pro Glu Thr Asp Asn Arg Gln Glu Ser Pro Ser Gln Glu Asn Ile Asp
      35      40      45
Arg Val Ser Asp Met Ala Phe Val Pro Ser Ala Trp Thr Ala Ser Gly
      50      55      60
Gly Val Ala Trp Gly Asn Leu Gly Glu Ser Gly Ser Arg Thr Gly Gly
      65      70      75      80
Val Arg Ala Glu Thr Leu Ala Pro Arg Leu Gln Val Xaa Pro Ala His
      85      90      95
Leu Arg Gly His Pro Arg Ser Asn Arg Gly Gln Gly Arg Pro Pro Trp

```

```

          100          105          110
Lys Ala Gly Lys Leu Gly Lys Cys Gln Glu Val Leu Phe Arg Phe Ala
          115          120          125
Ala Phe
          130

```

```

<210> 817
<211> 119
<212>Amino acid
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(119)
<223> X = any amino acid or stop code

```

```

<400> 817
Phe Arg Ala Met Phe Leu Ala Val Gln His Asp Cys Arg Pro Met Asp
 1          5          10          15
Lys Ser Ala Gly Ser Gly His Lys Ser Glu Glu Lys Arg Glu Lys Met
          20          25          30
Lys Arg Thr Leu Leu Lys Asp Trp Lys Thr Arg Leu Ser Tyr Phe Leu
          35          40          45
Gln Asn Ser Ser Thr Pro Gly Lys Pro Lys Thr Gly Lys Lys Ser Lys
          50          55          60
Gln Gln Ala Phe Ile Lys Xaa Val Glu Asn Pro Glu Leu Ala Asn Ile
          65          70          75          80
Asn Ser Xaa Leu Leu Asn Xaa Lys Gly Glu Leu Xaa Xaa Ala Xaa Ala
          85          90          95
Asn Ile Gln Asn Leu Ser Cys Arg Pro Ser Pro Glu Glu Ala Gln Leu
          100          105          110
Trp Ser Glu Ala Phe Asp Glu
          115          119

```

```

<210> 818
<211> 131
<212>Amino acid
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(131)
<223> X = any amino acid or stop code

```

```

<400> 818
Gly Phe Phe Asn Phe Ser Ser Pro Lys Leu Lys Gly Trp Lys Ile Asn
 1          5          10          15
Ser Ser Leu Val Leu Glu Ile Arg Lys Asn Ile Leu Arg Phe Leu Asp
          20          25          30
Ala Glu Arg Asp Val Ser Val Val Lys Ser Ser Phe Pro Ser Lys Asp
          35          40          45
Ala Arg His Ser Ser Val His Arg Xaa Phe Thr Gln Leu His Trp Gly
          50          55          60
Pro Pro Ser His Thr Pro Ala Arg Pro Xaa Arg Gly Phe Phe Asn Phe

```

```

65          70          75          80
Ser Ser Pro Lys Leu Lys Gly Trp Lys Ile Asn Ser Ser Leu Val Leu
      85          90          95
Glu Ile Arg Lys Asn Ile Leu Arg Phe Leu Asp Ala Glu Arg Asp Val
      100        105        110
Ser Val Val Lys Ser Ser Phe Pro Ser Lys Asp Ala Arg His Ser Ser
      115        120        125
Val His Arg
      130 131

```

<210> 819

<211> 85

<212>Amino acid

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(85)

<223> X = any amino acid or stop code

```

<400> 819
Arg Ile Asp Asp Gln Gln Glu Leu Lys Arg Val Thr Xaa Tyr Ser Gln
 1          5          10          15
Lys Glu Tyr Thr Lys Lys Lys Leu His Lys Lys Cys Asn Ile Ile Gln
      20          25          30
Ala Asp Ile Lys Pro Asp Asn Ile Leu Asp Asn Glu Ser Ile Thr Ile
      35          40          45
Leu Lys Leu Ser Asp Phe Gly Ser Ala Ser His Val Ala Asp Asn Asp
      50          55          60
Ile Thr Pro Ser Ser Ser Gln Thr Thr Ser Ala Ala Ser Ser Pro Pro
      65          70          75          80
Arg Thr Leu Arg Arg
      85

```

<210> 820

<211> 44

<212>Amino acid

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(44)

<223> X = any amino acid or stop code

```

<400> 820
Ser Ser Lys Pro Trp Asp Xaa Ser Leu Ala Pro Lys His Ser Gly Xaa
 1          5          10          15
Thr Lys Asn Met Asp Cys Tyr Cys Ile Ile Pro Thr Cys Ile Gly Arg
      20          25          30
Glu Arg Cys Tyr Gly Thr Cys Ile Gly Asp Thr Val
      35          40          44

```

<210> 821

<211> 105
 <212>Amino acid
 <213> Homo sapiens

 <220>
 <221> misc_feature
 <222> (1)...(105)
 <223> X = any amino acid or stop code

<400> 821
 Asn Ser Ser Lys Lys Leu Val Met Glu His Gln Trp Lys Lys Tyr Leu
 1 5 10 15
 Arg Arg Asn Tyr Gln Arg Met Leu Asn Arg Leu Ile Thr Leu Ile Gly
 20 25 30
 Ser Cys Gly Val Leu Xaa Leu Ile Ser Thr Ile Pro Thr Ser Arg Leu
 35 40 45
 Lys Phe Leu Lys Glu Thr Gly His Gly Thr Pro Met Glu Glu Ile Pro
 50 55 60
 Glu Glu Glu Leu Ser Glu Asp Val Glu Gln Ile Asp His Ala Asp Arg
 65 70 75 80
 Glu Leu Arg Arg Gly Gln Asn Leu Arg Cys Lys Gly Ile His Arg Leu
 85 90 95
 Pro Thr His Ile Gln Val Gly Gln Asn
 100 105

<210> 822
 <211> 172
 <212>Amino acid
 <213> Homo sapiens

 <220>
 <221> misc_feature
 <222> (1)...(172)
 <223> X = any amino acid or stop code

<400> 822
 Lys Trp Met Leu Leu His Ser Phe Lys Ile Phe Cys Leu Ser Leu Tyr
 1 5 10 15
 Pro Gln Leu Xaa Cys Pro Phe Glu Phe Phe Ser His Ser Ala Thr Ile
 20 25 30
 Phe His Glu Leu Val Tyr Lys Gln Thr Lys Ile Ile Ser Ser Asn Gln
 35 40 45
 Glu Leu Ile Tyr Glu Gly Arg Arg Leu Val Leu Glu Pro Gly Arg Leu
 50 55 60
 Ala Gln His Phe Pro Lys Thr Thr Glu Glu Asn Pro Ile Phe Val Val
 65 70 75 80
 Ser Arg Glu Pro Leu Asn Thr Ile Gly Leu Ile Tyr Glu Lys Ile Ser
 85 90 95
 Leu Pro Lys Val His Pro Arg Tyr Asp Leu Asp Gly Asp Ala Ser Met
 100 105 110
 Ala Lys Ala Ile Thr Gly Val Val Cys Tyr Ala Cys Arg Ile Ala Ser
 115 120 125
 Thr Leu Leu Leu Tyr Gln Glu Leu Met Arg Lys Gly Ile Arg Trp Leu
 130 135 140
 Ile Glu Leu Ile Lys Asp Asp Tyr Asn Glu Thr Val His Lys Lys Thr

145		150		155		160					
Glu	Val	Val	Ile	Thr	Leu	Gly	Phe	Leu	Val	Ser	Arg
				165				170		172	

<210> 823
 <211> 104
 <212> Amino acid
 <213> Homo sapiens

 <220>
 <221> misc_feature
 <222> (1)...(104)
 <223> X = any amino acid or stop code

<400> 823
 Gly Thr Arg Lys Met Gly Pro Thr Val Ser Pro Ile Cys Leu Pro Gly
 1 5 10 15
 Thr Trp Gly Asp Tyr Asn Leu Met Asp Gly Asp Leu Gly Leu Ile Ser
 20 25 30
 Gly Trp Gly Arg Thr Glu Lys Arg Asp Arg Ala Asp Arg Leu Lys Ala
 35 40 45
 Gly Arg Ser Pro Ala Ala Gly Xaa Arg Lys Trp Glu Pro Gly Arg Gly
 50 55 60
 Asp Pro Thr Trp Glu Glu Ser Glu Glu Asp Val His Lys Ser Lys Trp
 65 70 75 80
 Thr Arg Cys Val Asp Glu Lys Gly Ala Xaa Cys Xaa Thr Asp Asn Lys
 85 90 95
 Arg Pro Leu Arg Cys Gly Val Thr
 100 104

<210> 824
 <211> 99
 <212> Amino acid
 <213> Homo sapiens

 <220>
 <221> misc_feature
 <222> (1)...(99)
 <223> X = any amino acid or stop code

<400> 824
 His Glu Leu Glu Asn Leu Ile Lys Ser Ala His Ser Tyr Ser Leu Tyr
 1 5 10 15
 Xaa Gly Xaa Tyr Leu His Gly Ala Xaa Thr Ala Glu Pro Glu Ala Ser
 20 25 30
 Phe Cys Pro Arg Arg Gly Trp Asn Arg Gln Ala Gly Ala Ala Gly Ser
 35 40 45
 Arg Met Asn Phe Arg Pro Gly Val Leu Ser Ser Arg Gln Leu Gly Leu
 50 55 60
 Pro Gly Pro Pro Asp Gly Pro Asp Tyr Thr Val Tyr Tyr Pro Phe His
 65 70 75 80
 Arg Leu Ala Met Val Thr Ala Ala Ser Arg Leu Glu Arg Glu His Leu
 85 90 95
 Thr His Leu

99

<210> 825
 <211> 111
 <212>Amino acid
 <213> Homo sapiens

 <220>
 <221> misc_feature
 <222> (1)...(111)
 <223> X = any amino acid or stop code

<400> 825
 Pro Val Pro Leu Pro His Pro Ile Leu Glu Val Cys Pro Gly Gln Xaa
 1 5 10 15
 Glu Pro Gln Ser Ala Ile Ser Leu Thr Ala Phe Gln Val Gln Ala Gly
 20 25 30
 Ala Ser Arg Ala Ser Pro Gly Pro Pro Ala Pro Ser Ser Ser Lys Pro
 35 40 45
 Gly Arg Lys Ala Lys Val Ala Ser Pro Cys Pro Asp Arg Pro Ala Pro
 50 55 60
 Pro Pro Thr Xaa Pro Arg Pro Ala Ala Ala Pro Gly Ser Glu Ser Ser
 65 70 75 80
 Pro Arg Pro Pro Arg Pro Arg Thr Gly Arg Arg Gln Gln Arg Ala His
 85 90 95
 Ala Arg Arg Ala Ala Arg Thr Ala Pro Trp Arg Pro Ser Cys
 100 105 110 111

<210> 826
 <211> 95
 <212>Amino acid
 <213> Homo sapiens

<400> 826
 His Glu Gly Arg Arg Gly Trp Ala Ser Ala Ser Gln Arg Phe Leu
 1 5 10 15
 Arg Asn Trp Ala Phe Leu Thr Pro Ser Lys Val Arg Arg Leu Lys Gly
 20 25 30
 Gln Lys Ala Phe Gly Lys Leu Pro Ser His Ser Asp Thr Ser Leu Thr
 35 40 45
 Ser Asp Leu Gly Phe His His Arg Phe Asn Pro Asn Ala Ser Ser Ser
 50 55 60
 Phe Lys Pro Ser Gly Thr Lys Phe Ala Ile Gln Tyr Gly Thr Gly Arg
 65 70 75 80
 Val Asp Gly Ile Leu Ser Glu Asp Lys Leu Thr Val Ser Gly Leu
 85 90 95

<210> 827
 <211> 33
 <212>Amino acid
 <213> Homo sapiens

<220>

<221> misc_feature
 <222> (1)...(33)
 <223> X = any amino acid or stop code

<400> 827
 Gly Arg Asn Ile Met His Tyr Pro Asn Gly His Ala Ile Cys Ile Ala
 1 5 10 15
 Asn Gly His Cys Ile Ile Leu Xaa Asn Ser His Asn Ile Lys Val Trp
 20 25 30
 Val
 33

<210> 828
 <211> 178
 <212> Amino acid
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(178)
 <223> X = any amino acid or stop code

<400> 828
 Ile Asn Leu Gly Asn Thr Cys Tyr Met Asn Ser Val Ile Xaa Ala Leu
 1 5 10 15
 Phe Met Ala Thr Asp Phe Arg Arg Gln Val Leu Ser Leu Asn Leu Asn
 20 25 30
 Gly Cys Asn Ser Leu Met Lys Lys Leu Gln His Leu Phe Ala Phe Leu
 35 40 45
 Ala His Thr Gln Arg Glu Ala Tyr Ala Pro Arg Ile Phe Phe Glu Ala
 50 55 60
 Ser Arg Pro Pro Trp Phe Thr Pro Arg Ser Gln Gln Asp Cys Ser Glu
 65 70 75 80
 Tyr Leu Arg Phe Leu Leu Asp Arg Leu His Glu Glu Glu Lys Ile Leu
 85 90 95
 Lys Val Gln Ala Ser His Lys Pro Ser Glu Ile Leu Glu Cys Ser Glu
 100 105 110
 Thr Ser Leu Gln Glu Val Ala Ser Lys Ala Ala Val Leu Thr Glu Thr
 115 120 125
 Pro Arg Thr Ser Asp Gly Glu Lys Thr Leu Ile Glu Lys Met Phe Gly
 130 135 140
 Gly Lys Leu Arg Thr His Ile Arg Cys Leu Asn Cys Thr Ser Thr Ser
 145 150 155 160
 Gln Lys Val Glu Ala Phe Thr Asp Leu Ser Leu Ala Phe Trp Pro Ser
 165 170 175
 Ser Ser
 178

<210> 829
 <211> 43
 <212> Amino acid
 <213> Homo sapiens

<220>

<221> misc_feature
 <222> (1)...(43)
 <223> X = any amino acid or stop code

<400> 829
 Ala Arg Asp Asp Pro Arg Val Arg Leu Ser Leu Ser Pro Asn Phe Phe
 1 . 5 10 15
 Xaa Leu Ala Ser Lys Leu Gly Lys Gln Trp Thr Pro Leu Ile Ile Leu
 20 25 30
 Ala Asn Ser Leu Ser Gly Thr Asn Met Gly Glu
 35 40 43

<210> 830
 <211> 259
 <212> Amino acid
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(259)
 <223> X = any amino acid or stop code

<400> 830
 Met His Arg Ile Lys Leu Asn Asp Arg Met Thr Phe Pro Glu Glu Leu
 1 5 10 15
 Asp Met Ser Thr Phe Ile Asp Val Glu Asp Glu Lys Ser Pro Gln Thr
 20 25 30
 Glu Ser Cys Thr Asp Ser Gly Ala Glu Asn Glu Gly Ser Cys His Ser
 35 40 45
 Asp Gln Met Ser Asn Asp Phe Ser Asn Asp Asp Gly Val Asp Glu Gly
 50 55 60
 Ile Cys Leu Glu Thr Asn Ser Gly Thr Glu Lys Ile Ser Lys Ser Gly
 65 70 75 80
 Leu Glu Lys Asn Ser Leu Ile Tyr Glu Leu Phe Ser Val Met Val His
 85 90 95
 Ser Gly Ser Ala Gly Gly His Tyr Tyr Ala Cys Ile Lys Ser Phe
 100 105 110
 Ser Asp Glu Gln Trp Tyr Ser Phe Asn Asp Gln His Val Ser Arg Ile
 115 120 125
 Thr Gln Glu Asp Ile Lys Lys Thr His Gly Gly Ser Ser Gly Ser Arg
 130 135 140
 Gly Tyr Tyr Ser Ser Ala Phe Ala Ser Ser Thr Asn Ala Tyr Met Leu
 145 150 155 160
 Ile Tyr Arg Leu Lys Asp Pro Ala Arg Asn Ala Lys Phe Leu Glu Val
 165 170 175
 Asp Glu Tyr Pro Glu His Ile Lys Asn Leu Val Gln Lys Glu Arg Glu
 180 185 190
 Leu Glu Glu Gln Glu Lys Arg Gln Arg Glu Ile Glu Arg Asn Thr Cys
 195 200 205
 Lys Ile Lys Leu Phe Cys Leu His Pro Thr Lys Gln Val Met Met Glu
 210 215 220
 Asp Xaa Ile Glu Val His Lys Asp Lys Thr Leu Lys Glu Ala Val Glu
 225 230 235 240
 Met Ala Tyr Lys Met Met Asp Leu Glu Glu Val Ile Pro Leu Asp Cys
 245 250 255

Cys Arg Leu
259

<210> 831
<211> 200
<212> Amino acid
<213> Homo sapiens

<400> 831
Ser Val Met Pro Val Pro Ala Leu Cys Leu Leu Trp Ala Leu Ala Met
1 5 10 15
Val Thr Arg Pro Ala Ser Ala Ala Pro Met Gly Gly Pro Glu Leu Ala
20 25 30
Gln His Glu Glu Leu Thr Leu Leu Phe His Gly Thr Leu Gln Leu Gly
35 40 45
Gln Ala Leu Asn Gly Val Tyr Arg Thr Thr Glu Gly Arg Leu Thr Lys
50 55 60
Ala Arg Asn Ser Leu Gly Leu Tyr Gly Arg Thr Ile Glu Leu Leu Gly
65 70 75 80
Gln Glu Val Ser Arg Gly Arg Asp Ala Ala Gln Glu Leu Arg Ala Ser
85 90 95
Leu Leu Glu Thr Gln Met Glu Glu Asp Ile Leu Gln Leu Gln Ala Glu
100 105 110
Ala Thr Ala Glu Val Leu Gly Glu Val Ala Gln Ala Gln Lys Val Leu
115 120 125
Arg Asp Ser Val Gln Arg Leu Glu Val Gln Leu Arg Ser Ala Trp Leu
130 135 140
Gly Pro Ala Tyr Arg Glu Phe Glu Val Leu Lys Ala His Ala Asp Lys
145 150 155 160
Gln Ser His Ile Leu Trp Ala Leu Thr Gly His Val Gln Arg Gln Arg
165 170 175
Arg Glu Met Val Ala Gln Gln His Arg Leu Arg Gln Ile Gln Glu Arg
180 185 190
Leu His Thr Ala Ala Leu Pro Ala
195 200

<210> 832
<211> 225
<212> Amino acid
<213> Homo sapiens

<400> 832
Ile Thr Ser Val Asp Pro Arg Val Arg Gly Asn Ala Ser Thr Gly Tyr
1 5 10 15
Gly Lys Ile Trp Leu Asp Asp Val Ser Cys Asp Gly Asp Glu Ser Asp
20 25 30
Leu Trp Ser Cys Arg Asn Ser Gly Trp Gly Asn Asn Asp Cys Ser His
35 40 45
Ser Glu Asp Val Gly Val Ile Cys Ser Asp Ala Ser Asp Met Glu Leu
50 55 60
Arg Leu Val Gly Gly Ser Ser Arg Cys Ala Gly Lys Val Glu Val Asn
65 70 75 80
Val Gln Gly Ala Val Gly Ile Leu Cys Ala Asn Gly Trp Gly Met Asn
85 90 95

```

Ile Ala Glu Val Val Cys Arg Gln Leu Glu Cys Gly Ser Ala Ile Arg
      100      105      110
Val Ser Arg Glu Pro His Phe Thr Glu Arg Thr Leu His Ile Leu Met
      115      120      125
Ser Asn Ser Gly Cys Ala Gly Gly Glu Ala Ser Leu Trp Asp Cys Ile
      130      135      140
Arg Trp Glu Trp Lys Gln Thr Ala Cys His Leu Asn Met Glu Ala Ser
      145      150      155      160
Leu Ile Cys Ser Ala His Arg Gln Pro Arg Leu Val Gly Ala Asp Met
      165      170      175
Pro Cys Ser Gly Arg Val Glu Val Lys His Ala His Thr Trp Arg Ser
      180      185      190
Val Cys Asp Ser Asp Phe Ser Leu His Ala Ala Asn Val Leu Cys Arg
      195      200      205
Glu Leu Asn Cys Gly Asp Ala Ile Ser Leu Ser Val Gly Asp His Phe
      210      215      220
Gly
      225

```

<210> 833
 <211> 206
 <212>Amino acid
 <213> Homo sapiens

```

      <400> 833
Ser Asn Tyr Pro Ser Ser Arg Phe Arg Val Ala Gly Ile Thr Gly Val
  1      5      10      15
Lys Leu Gly Met Arg Ser Ile Pro Ile Ala Thr Ala Cys Thr Ile Tyr
      20      25      30
His Lys Phe Phe Cys Glu Thr Asn Leu Asp Ala Tyr Asp Pro Tyr Leu
      35      40      45
Ile Ala Met Ser Ser Ile Tyr Leu Ala Gly Lys Val Glu Glu Gln His
      50      55      60
Leu Arg Thr Arg Asp Ile Ile Asn Val Ser Asn Arg Tyr Phe Asn Pro
      65      70      75      80
Ser Gly Glu Pro Leu Glu Leu Asp Ser Arg Phe Trp Glu Leu Arg Asp
      85      90      95
Ser Ile Val Gln Cys Glu Leu Leu Met Leu Arg Val Leu Arg Phe Gln
      100      105      110
Val Ser Phe Gln His Pro His Lys Tyr Leu Leu His Tyr Leu Val Ser
      115      120      125
Leu Gln Asn Trp Leu Asn Arg His Ser Trp Gln Arg Thr Pro Val Ala
      130      135      140
Val Thr Ala Trp Ala Leu Leu Arg Asp Ser Tyr His Gly Ala Leu Cys
      145      150      155      160
Leu Arg Phe Gln Ala Gln His Ile Ala Val Ala Val Leu Tyr Leu Ala
      165      170      175
Leu Gln Val Tyr Gly Val Glu Val Pro Ala Glu Val Glu Ala Asp Glu
      180      185      190
Ala Val Gly Trp Gln Ile Tyr Ala Met Asp Thr Glu Ile Pro
      195      200      205 206

```

<210> 834
 <211> 86
 <212>Amino acid
 <213> Homo sapiens

<400> 834

```

Arg Gly Ser Arg His Ala Val His Gly Trp Ala Phe Gly Leu Leu Phe
 1           5           10           15
Ile Asn Lys Glu Ser Val Val Met Ala Tyr Leu Phe Thr Thr Phe Asn
          20           25           30
Ala Phe Gln Gly Val Phe Ile Phe Val Phe His Cys Ala Leu Gln Lys
          35           40           45
Lys Val Arg Ser Arg Arg Gly Pro Gly Ser Gln Pro Pro Leu Glu Thr
          50           55           60
Phe Pro Gly Tyr Pro Gly Glu Gly Gly Glu Gly Gly Gly Asp Ser Gly
 65           70           75           80
Ala Pro Ser Ser Pro Gln
          85 86

```

<210> 835

<211> 110

<212>Amino acid

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(110)

<223> X = any amino acid or stop code

<400> 835

```

Ala Arg Lys Asp Asp Leu Pro Pro Asn Met Arg Phe His Glu Glu Lys
 1           5           10           15
Arg Leu Asp Phe Glu Trp Thr Leu Lys Ala Gly Xaa Glu Lys Gly Xaa
          20           25           30
Pro Ser Lys Xaa Asn Lys Gly Trp Glu Gly Gln Glu Xaa Xaa Xaa Thr
          35           40           45
Val Arg Asp Xaa Gly Ile Ser Xaa Xaa Val Lys Pro Gln His Leu Ser
          50           55           60
Xaa Ala Leu Gln Met Ala Leu Lys Arg Val Tyr Thr Leu Leu Ser Ser
 65           70           75           80
Trp Asn Cys Leu Glu Asp Phe Asp Gln Ile Phe Trp Gly Gln Lys Ser
          85           90           95
Ala Leu Ala Gly Gln Trp Phe Pro Glu Val Ser Ile Ile Pro
          100           105           110

```

<210> 836

<211> 70

<212>Amino acid

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(70)

<223> X = any amino acid or stop code

<400> 836

Gly Lys Gln Gln Arg Glu Thr Leu Arg Arg Pro Ser Pro Thr Ile Ser
 1 5 10 15
 Val Gln Arg Ala Gly Ser Pro Glu His Ser Ser Ala Ser His Xaa His
 20 25 30
 Ser Pro Cys Pro Ala Pro Gly Gln Arg Val Leu Pro Thr Ala Leu Cys
 35 40 45
 Thr Leu Met Thr Ser Lys His Phe His Gly Cys Pro Leu Ala Gly Gln
 50 55 60
 Gly Arg Ala Val Thr Leu
 65 70

<210> 837
 <211> 473
 <212> Amino acid
 <213> Homo sapiens

<400> 837
 Gly Val Cys Gly Leu Pro Arg Phe Cys Gly Ser Ile Ile Leu Cys His
 1 5 10 15
 Tyr Glu Met Ser Ser Leu Gly Ala Ser Phe Val Gln Ile Lys Phe Asp
 20 25 30
 Asp Leu Gln Phe Phe Glu Asn Cys Gly Gly Gly Ser Phe Gly Ser Val
 35 40 45
 Tyr Arg Ala Lys Trp Ile Ser Gln Asp Lys Glu Val Ala Val Lys Lys
 50 55 60
 Leu Leu Lys Ile Glu Lys Glu Ala Glu Ile Leu Ser Val Leu Ser His
 65 70 75 80
 Arg Asn Ile Ile Gln Phe Tyr Gly Val Ile Leu Glu Pro Pro Asn Tyr
 85 90 95
 Gly Ile Val Thr Glu Tyr Ala Ser Leu Gly Ser Leu Tyr Asp Tyr Ile
 100 105 110
 Asn Ser Asn Arg Ser Glu Glu Met Asp Met Asp His Ile Met Thr Trp
 115 120 125
 Ala Thr Asp Val Ala Lys Gly Met His Tyr Leu His Met Glu Ala Pro
 130 135 140
 Val Lys Val Ile His Arg Asp Leu Lys Ser Arg Asn Val Val Ile Ala
 145 150 155 160
 Ala Asp Gly Val Leu Lys Ile Cys Asp Phe Gly Ala Ser Arg Phe His
 165 170 175
 Asn His Thr Thr His Met Ser Leu Val Gly Thr Phe Pro Trp Met Ala
 180 185 190
 Pro Glu Val Ile Gln Ser Leu Pro Val Ser Glu Thr Cys Asp Thr Tyr
 195 200 205
 Ser Tyr Gly Val Val Leu Trp Glu Met Leu Thr Arg Glu Val Pro Phe
 210 215 220
 Lys Gly Leu Glu Gly Leu Gln Val Ala Trp Leu Val Val Glu Lys Asn
 225 230 235 240
 Glu Arg Leu Thr Ile Pro Ser Ser Cys Pro Arg Ser Phe Ala Glu Leu
 245 250 255
 Leu His Gln Cys Trp Glu Ala Asp Ala Lys Lys Arg Pro Ser Phe Lys
 260 265 270
 Gln Ile Ile Ser Ile Leu Glu Ser Met Ser Asn Asp Thr Ser Leu Pro
 275 280 285
 Asp Lys Cys Asn Ser Phe Leu His Asn Lys Ala Glu Trp Arg Cys Glu
 290 295 300
 Ile Glu Ala Thr Leu Glu Arg Leu Lys Lys Leu Glu Arg Asp Leu Ser
 305 310 315 320
 Phe Lys Glu Gln Glu Leu Lys Glu Arg Glu Arg Arg Leu Lys Met Trp
 325 330 335

```

Glu Gln Lys Leu Thr Glu Gln Ser Asn Thr Pro Leu Leu Leu Pro Leu
      340                      345                      350
Ala Ala Arg Met Ser Glu Glu Ser Tyr Phe Glu Ser Lys Thr Glu Glu
      355                      360                      365
Ser Asn Ser Ala Glu Met Ser Cys Gln Ile Thr Ala Thr Ser Asn Gly
      370                      375                      380
Glu Gly His Gly Met Asn Pro Ser Leu Gln Ala Met Met Leu Met Gly
      385                      390                      395                      400
Phe Gly Asp Ile Phe Ser Met Asn Lys Ala Gly Ala Val Met His Ser
      405                      410                      415
Gly Met Gln Ile Asn Met Gln Ala Lys Gln Asn Ser Ser Lys Thr Thr
      420                      425                      430
Ser Lys Arg Arg Gly Lys Lys Val Asn Met Ala Leu Gly Phe Ser Asp
      435                      440                      445
Phe Asp Leu Ser Glu Gly Asp Asp Asp Asp Asp Asp Gly Glu Glu
      450                      455                      460
Glu Tyr Asn Asp Met Asp Asn Ser Glu
      465                      470                      473

```

```

<210> 838
<211> 48
<212>Amino acid
<213> Homo sapiens

```

```

<400> 838
Met Leu Trp Glu Thr Gly Cys Ser Ala Ala Cys Arg Val Thr Val Ser
  1                      5                      10                      15
Pro Thr Val Thr Phe Ala Thr Phe Ser Thr Arg Gly Ile Asp Ala Met
      20                      25                      30
Arg Pro Gly Pro Ser Phe Leu Trp Arg Gln Gln Leu Ser Gln Gly *
      35                      40                      45                      47

```

```

<210> 839
<211> 116
<212>Amino acid
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(116)
<223> X = any amino acid or stop code

```

```

<400> 839
Pro Thr Leu Gly Asp Gln Pro Asp Leu His Ser Ile Thr Arg Ala Ser
  1                      5                      10                      15
Arg Pro Lys Leu Cys Thr Arg Lys Asn Cys Asn Pro Leu Thr Ile Thr
      20                      25                      30
Val His Asp Pro Asn Ser Thr Gln Xaa Tyr Tyr Gly Met Ser Trp Glu
      35                      40                      45
Leu Arg Phe Tyr Ile Pro Gly Phe Asp Val Gly Thr Met Phe Thr Ile
      50                      55                      60
Gln Lys Ile Leu Val Ser Trp Ser Pro Pro Lys Pro Ile Gly Pro Leu
      65                      70                      75                      80
Thr Asp Leu Gly Asp Pro Met Phe Gln Lys Pro Pro Asn Lys Val Asp

```

```

      85      90      95
Leu Thr Val Pro Pro Phe Leu Val Ile Lys Asp Thr Leu Gln Lys
      100      105      110
Phe Glu Lys Ile
      115 116

```

```

<210> 840
<211> 138
<212>Amino acid
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(138)
<223> X = any amino acid or stop code

```

```

<400> 840
Ser Leu Asn Asn Val Thr Leu Pro Gln Ala Lys Thr Glu Lys Asp Phe
 1      5      10      15
Ile Gln Leu Cys Thr Pro Gly Val Ile Lys Gln Glu Lys Leu Gly Thr
      20      25      30
Val Tyr Cys Gln Ala Ser Ser Pro Gly Ala Asn Met Ile Gly Asn Lys
      35      40      45
Met Ser Ala Ile Ser Val His Gly Val Ser Thr Ser Gly Gly Gln Met
 50      55      60
Tyr His Tyr Asp Met Asn Thr Ala Ser Leu Ser Gln Gln Xaa Asp Gln
 65      70      75      80
Lys Pro Ile Phe Asn Val Ile Pro Pro Ile Pro Val Gly Ser Glu Asn
      85      90      95
Trp Asn Arg Cys Gln Gly Ser Gly Asp Asp Asn Leu Thr Ser Leu Gly
      100      105      110
Thr Leu Asn Phe Pro Gly Arg Thr Val Ser Phe Ser Phe Glu Met Glu
      115      120      125
Ser Arg Ser Val Ala Gln Ala Gly Val Gln
130      135      138

```

```

<210> 841
<211> 82
<212>Amino acid
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(82)
<223> X = any amino acid or stop code

```

```

<400> 841
Arg His Thr Gln Glu Cys Arg Cys Pro His Thr His Ile His Thr His
 1      5      10      15
Thr His Ser His Thr His Ser His Thr His Ser His Ser His Ser His
      20      25      30
Thr Thr Pro Arg Cys Ser His Thr Gln Pro Pro His Ala Gln Ala Pro
      35      40      45
Ala Leu Cys Xaa Ser Xaa Glu Asp Arg Gly Gln Pro Thr Trp Lys Leu

```

50 55 60
 Cys Ala His Arg Pro Arg Leu Lys Val Ile Lys Glu Gly Gly Trp Leu
 65 70 75 80
 Gly Gly
 82

<210> 842
 <211> 58
 <212> Amino acid
 <213> Homo sapiens

 <220>
 <221> misc_feature
 <222> (1)...(58)
 <223> X = any amino acid or stop code

<400> 842
 Asn Tyr Ser Leu Ser Val Tyr Leu Val Arg Gln Leu Thr Ala Gly Thr
 1 5 10 15
 Leu Leu Gln Lys Leu Arg Ala Lys Gly Ile Arg Asn Pro Asp His Ser
 20 25 30
 Arg Ala Leu Ser Glu Xaa His Leu Ser Ser Leu Pro His Leu Ile Trp
 35 40 45
 Ile Gln Val Phe Leu Ala Leu Gln Pro Ser
 50 55 58

<210> 843
 <211> 230
 <212> Amino acid
 <213> Homo sapiens

 <220>
 <221> misc_feature
 <222> (1)...(230)
 <223> X = any amino acid or stop code

<400> 843
 Ala Thr Tyr Ile Val Asp Phe Gly Phe Ser Thr Thr Phe Arg Glu Gly
 1 5 10 15
 Gln Met Leu Thr Ala Phe Cys Gly Met Tyr Pro Tyr Val Ala Pro Glu
 20 25 30
 Arg Ser Leu Gly Gln Ala Cys Gln Xaa Pro Ala Arg Asp Ile Gln Ser
 35 40 45
 Leu Ser Val Ile Leu Tyr Phe Arg Asn Thr Val Gly Arg Arg Ala Arg
 50 55 60
 Thr Leu Pro Phe Tyr Ser Ala Glu Ala Ser Lys Leu Gln Glu Lys Ile
 65 70 75 80
 Leu Thr Gly Arg Tyr His Ala Pro Pro Leu Leu Ala Leu Gln Leu Asp
 85 90 95
 Ser Leu Ile Lys Leu Leu Met Leu Asn Ala Arg Lys Cys Pro Ser Leu
 100 105 110
 Xaa Leu Met Lys Asn Pro Trp Val Lys Ser Ser Gln Lys Met Pro Leu
 115 120 125
 Ile Pro Tyr Glu Glu Pro Leu Arg Gly Pro Pro Gln Thr Ile Gln Leu

```

      130              135              140
Met Val Ala Met Gly Phe Gln Ala Lys Asn Ile Ser Val Ala Ile Ile
145              150              155              160
Glu Arg Lys Phe Asn Tyr Pro Met Ala Thr Tyr Leu Ile Leu Glu His
      165              170              175
Thr Lys Gln Glu Arg Lys Cys Ser Thr Ile Arg Glu Leu Ser Leu Pro
      180              185              190
Pro Gly Val Pro Thr Ser Pro Ser Pro Ser Thr Glu Leu Ser Thr Phe
      195              200              205
Pro Leu Ser Leu Met Arg Ala His Arg Glu Pro Ala Phe Asn Val Gln
      210              215              220
Pro Pro Glu Glu Ser Gln
225              230

```

```

<210> 844
<211> 258
<212>Amino acid
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(258)
<223> X = any amino acid or stop code

```

```

      <400> 844
Ala Lys Gln Glu Leu Ala Lys Leu Met Arg Ile Glu Asp Pro Ser Leu
 1              5              10              15
Leu Asn Ser Arg Val Leu Leu His His Ala Lys Ala Gly Thr Ile Ile
      20              25              30
Ala Arg Gln Gly Asp Gln Asp Val Ser Leu His Phe Val Leu Trp Gly
      35              40              45
Cys Leu His Val Tyr Gln Arg Met Ile Asp Lys Ala Glu Asp Val Cys
      50              55              60
Leu Phe Val Ala Gln Pro Gly Glu Leu Val Gly Gln Leu Ala Val Leu
      65              70              75              80
Thr Gly Glu Pro Leu Ile Phe Thr Leu Arg Ala Gln Arg Asp Cys Thr
      85              90              95
Phe Leu Arg Ile Ser Lys Ser Asp Phe Tyr Glu Ile Met Arg Ala Gln
      100              105              110
Pro Ser Val Val Leu Ser Ala Ala His Thr Val Ala Ala Arg Met Ser
      115              120              125
Pro Phe Val Arg Gln Met Asp Phe Ala Ile Asp Trp Thr Ala Val Glu
      130              135              140
Ala Gly Arg Ala Leu Tyr Arg Cys Ser Ser His Arg Ala Ala Gln Ala
145              150              155              160
Arg Pro Arg Gly Gly Asp Leu Gly Val Val Arg Pro Cys Xaa Pro Pro
      165              170              175
Arg Pro Leu Arg Gln Gly Asp Arg Ser Asp Cys Thr Tyr Ile Val Leu
      180              185              190
Asn Gly Arg Leu Arg Ser Val Ile Gln Arg Gly Ser Gly Lys Lys Glu
      195              200              205
Leu Val Gly Glu Tyr Gly Arg Gly Asp Leu Ile Gly Val Val Ser Ala
      210              215              220
Thr Pro Thr His Xaa Pro Leu Ala Phe Ser Arg Pro Val Pro Arg Gln
225              230              235              240
Leu Thr Arg Ile Ile Pro Gly Asn Pro Gly Ser Gly Glu Val Phe Pro
      245              250              255
Gly Ala
258

```

<210> 845
 <211> 235
 <212>Amino acid
 <213> Homo sapiens

 <220>
 <221> misc_feature
 <222> (1)...(235)
 <223> X = any amino acid or stop code

<400> 845
 His Ala Ser Gly Trp Thr Pro Gly Thr Thr Gln Thr Leu Gly Gln Gly
 1 5 10 15
 Thr Ala Trp Asp Thr Val Ala Ser Thr Pro Gly Thr Ser Glu Thr Thr
 20 25 30
 Ala Ser Ala Glu Gly Arg Arg Thr Pro Gly Ala Thr Arg Pro Ala Ala
 35 40 45
 Pro Gly Thr Gly Ser Trp Ala Glu Gly Ser Val Lys Ala Pro Ala Pro
 50 55 60
 Ile Pro Glu Ser Pro Pro Ser Lys Ser Arg Ser Met Ser Asn Thr Thr
 65 70 75 80
 Glu Gly Val Trp Glu Gly Thr Arg Ser Ser Val Thr Asn Arg Ala Arg
 85 90 95
 Ala Ser Lys Asp Arg Arg Glu Met Thr Thr Thr Lys Ala Asp Arg Pro
 100 105 110
 Arg Glu Asp Ile Glu Gly Val Arg Ile Ala Leu Asp Ala Ala Lys Lys
 115 120 125
 Val Leu Gly Thr Ile Gly Pro Pro Ala Leu Val Ser Glu Thr Leu Ala
 130 135 140
 Trp Glu Ile Leu Pro Gln Ala Thr Pro Val Ser Lys Gln Gln Ser Gln
 145 150 155 160
 Gly Ser Ile Gly Glu Thr Thr Pro Ala Ala Gly Met Trp Thr Leu Gly
 165 170 175
 Thr Pro Ala Ala Asp Val Trp Ile Leu Gly Thr Pro Ala Ala Asp Val
 180 185 190
 Trp Thr Ser Met Glu Ala Ala Ser Gly Glu Gly Ser Ala Ala Gly Asp
 195 200 205
 Leu Asp Ala Ala Thr Gly Asp Arg Gly Pro Gln Ala Thr Leu Ser Gln
 210 215 220
 Thr Pro Ala Val Xaa Pro Trp Gly Pro Pro Gly
 225 230 235

<210> 846
 <211> 134
 <212>Amino acid
 <213> Homo sapiens

 <220>
 <221> misc_feature
 <222> (1)...(134)
 <223> X = any amino acid or stop code

<400> 846

```

Ala Gly Thr Ser Gly Thr Gly Asp Thr Gly Pro Gly Asn Thr Ala Val
 1          5          10          15
Ser Gly Thr Pro Val Val Ser Pro Gly Ala Thr Pro Gly Ala Pro Gly
          20          25          30
Ser Ser Thr Pro Gly Glu Ala Asp Ile Gly Asn Thr Ser Phe Gly Lys
          35          40          45
Ser Gly Thr Pro Thr Val Ser Ala Ala Ser Thr Thr Ser Ser Pro Val
          50          55          60
Ser Lys His Thr Asp Ala Ala Ser Ala Thr Ala Val Thr Ile Ser Gly
65          70          75          80
Ser Lys Pro Gly Thr Pro Gly Thr Pro Gly Gly Ala Thr Ser Gly Gly
          85          90          95
Lys Ile Thr Pro Gly Ile Ala Xaa Pro Thr Leu Asp Gln Lys Ser Pro
          100          105          110
Cys Phe Ser Gly Tyr Gly Gly Tyr Phe Pro Val Asn Pro His Gln Asn
          115          120          125
Pro Cys Ala Asp Ser Leu
          130          134

```

```

<210> 847
<211> 188
<212>Amino acid
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(188)
<223> X = any amino acid or stop code

```

```

<400> 847
Arg Ala His Arg Cys Cys Leu Pro Leu Pro Ser Leu Ser Cys Glu Ile
 1          5          10          15
Gln Ile Gly Phe Ser Xaa Ser Ser Ile Phe Pro Gly Gln Xaa Ala Cys
          20          25          30
Pro Cys Ser Cys Cys Arg Ser Cys Arg Arg Asn Trp Pro Gln Ser Pro
          35          40          45
Arg Cys Pro His His Pro Pro Ala Pro Cys Ser Leu Leu Leu Ser Ser
          50          55          60
Cys Leu Pro Pro Pro Leu Ser Cys Ser Trp Arg Gly Thr Ser Gly Lys
65          70          75          80
Pro Pro Ser Gln Ser Pro Ala Ala Ser Arg Ser Met Arg Pro Arg Cys
          85          90          95
Ser Pro Arg Thr Ser Ser Leu Arg Gly Ala Ser Cys Arg Gly Pro Gly
          100          105          110
Gly Ser Ala Pro Ala Ala Ala Ser Gly Pro Arg Cys Arg Gly Cys Ser
          115          120          125
Arg Ser Pro Arg Arg Cys Ser Arg Ser Gly Cys Ala Ala Ala Ser Pro
          130          135          140
Pro Arg Ser Gln Arg Arg Ser Pro Pro Leu Ser Pro Pro Pro Phe Pro
145          150          155          160
Thr Ser Gly Thr Leu Leu Lys Thr Ser Arg Phe Gly Ser Ala Thr
          165          170          175
Arg Glu Xaa Ser Ser Pro Arg Pro Arg Pro Arg Pro
          180          185          188

```

```

<210> 848
<211> 328
<212>Amino acid

```

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(328)

<223> X = any amino acid or stop code

<400> 848

```

Asp Asp Val Pro Pro Pro Ala Pro Asp Leu Tyr Asp Val Pro Pro Gly
 1          5          10          15
Leu Arg Arg Pro Gly Pro Gly Thr Leu Tyr Asp Val Pro Arg Glu Arg
          20          25          30
Val Leu Pro Pro Glu Val Ala Asp Gly Gly Val Val Asp Ser Gly Val
          35          40          45
Tyr Ala Val Pro Pro Pro Ala Glu Arg Glu Ala Pro Ala Glu Gly Lys
          50          55          60
Arg Leu Ser Ala Ser Ser Thr Gly Ser Thr Arg Ser Ser Gln Ser Ala
          65          70          75          80
Ser Ser Leu Glu Val Ala Gly Pro Gly Arg Glu Pro Leu Glu Leu Glu
          85          90          95
Val Ala Val Glu Ala Leu Ala Arg Leu Gln Gln Gly Val Ser Ala Thr
          100          105          110
Val Ala His Leu Leu Asp Leu Ala Gly Ser Ala Gly Ala Thr Gly Ser
          115          120          125
Trp Arg Ser Pro Ser Glu Pro Gln Glu Pro Leu Val Gln Asp Leu Gln
          130          135          140
Ala Ala Val Ala Ala Val Gln Ser Ala Val His Glu Leu Leu Glu Phe
          145          150          155          160
Ala Arg Ser Ala Val Gly Asn Ala Ala His Thr Ser Asp Arg Ala Leu
          165          170          175
His Ala Lys Leu Ser Arg Gln Leu Gln Lys Met Glu Asp Val His Gln
          180          185          190
Thr Leu Val Ala His Gly Gln Ala Leu Asp Ala Gly Arg Gly Gly Ser
          195          200          205
Gly Ala Thr Leu Glu Asp Leu Asp Arg Leu Val Ala Cys Ser Arg Ala
          210          215          220
Val Pro Glu Asp Ala Lys Gln Leu Ala Ser Phe Leu His Gly Asn Ala
          225          230          235          240
Ser Leu Leu Phe Arg Arg Thr Lys Ala Thr Ala Pro Gly Pro Glu Gly
          245          250          255
Gly Gly Thr Leu His Pro Asn Pro Thr Asp Lys Thr Ser Ser Ile Gln
          260          265          270
Ser Arg Pro Leu Pro Ser Pro Pro Lys Phe Thr Ser Gln Asp Ser Pro
          275          280          285
Asp Gly Gln Tyr Glu Asn Ser Glu Gly Gly Trp Met Glu Asp Tyr Asp
          290          295          300
Tyr Val His Leu Thr Gly Gly Arg Arg Ser Phe Xaa Lys Thr Gln Lys
          305          310          315          320
Glu Leu Leu Gly Lys Arg Ala Ala
          325          328

```

<210> 849

<211> 98

<212>Amino acid

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(98)

<223> X = any amino acid or stop code

<400> 849
 Met Ala Thr Asp Glu Glu Asn Val Tyr Gly Leu Glu Glu Asn Ala Gln
 1 5 10 15
 Ser Arg Gln Glu Ser Thr Arg Arg Leu Ile Leu Val Gly Arg Thr Gly
 20 25 30
 Ala Gly Lys Ser Ala Thr Gly Asn Ser Ile Leu Gly Gln Arg Arg Phe
 35 40 45
 Phe Ser Arg Leu Gly Ala Thr Ser Val Thr Arg Ala Cys Thr Thr Gly
 50 55 60
 Ser Arg Arg Trp Asp Lys Cys His Val Glu Val Val Asp Thr Pro Asp
 65 70 75 80
 Ile Phe Ser Ser Gln Val Ser Lys Thr Asp Pro Gly Cys Glu Glu Arg
 85 90 95
 Xaa *
 97

<210> 850
 <211> 94
 <212> Amino acid
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(94)
 <223> X = any amino acid or stop code

<400> 850
 Thr Leu Gly Leu Arg Ser Leu Thr Lys Glu Gly Gly Gly Gly Gly Asp
 1 5 10 15
 Val Ala Ala Phe Glu Val Gly Thr Gly Ala Ala Ala Ser Arg Ala Leu
 20 25 30
 Gly Gln Cys Gly Gln Leu Gln Lys Leu Ile Val Ile Phe Ile Gly Ser
 35 40 45
 Leu Cys Gly Leu Cys Thr Lys Cys Ala Val Ser Asn Asp Leu Thr Gln
 50 55 60
 Gln Glu Ile Gln Thr Pro Glu Ile Gln Gln Arg Asn Ala Xaa Cys Asp
 65 70 75 80
 Ser Arg Val Thr Phe Thr Asn Glu Gly Gly Arg Trp Trp Gly
 85 90 94

<210> 851
 <211> 50
 <212> Amino acid
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(50)
 <223> X = any amino acid or stop code

<400> 851

```

Phe Phe Phe Leu Val Glu Thr Arg Phe His His Ile Gly Gln Ala Gly
 1           5           10           15
Leu Glu Leu Leu Thr Leu Ser Ile Lys Xaa Ser Ala Arg Leu Gly Leu
           20           25           30
Pro Lys Cys Trp Asp Asp Arg Arg Glu Pro Pro Tyr Leu Ala Gly Phe
           35           40           45
Met Ile
 50

```

<210> 852

<211> 143

<212>Amino acid

<213> Homo sapiens

<400> 852

```

Arg Arg Ser Pro Pro Ala Pro Pro Pro Leu Pro Ser Pro Leu Ser
 1           5           10           15
Pro Pro Pro Arg Ala Pro Val Ser Pro Ala Ser Thr Met Pro Ile Leu
           20           25           30
Leu Phe Leu Ile Asp Thr Ser Ala Ser Met Asn Gln Arg Ser His Leu
           35           40           45
Gly Thr Thr Tyr Leu Asp Thr Ala Lys Gly Ala Val Glu Thr Phe Met
           50           55           60
Lys Leu Arg Ala Arg Asp Pro Ala Ser Arg Gly Asp Arg Tyr Met Leu
           65           70           75           80
Val Thr Phe Glu Glu Pro Pro Tyr Ala Ile Lys Ala Gly Trp Lys Glu
           85           90           95
Asn His Ala Thr Phe Met Asn Glu Leu Lys Asn Leu Gln Ala Glu Gly
           100           105           110
Leu Thr Thr Leu Gly Gln Ser Leu Arg Thr Ala Phe Asp Leu Leu Asn
           115           120           125
Leu Asn Arg Leu Val Thr Gly Ile Asp Asn Tyr Gly Gln Val Gly
           130           135           140           143

```

<210> 853

<211> 154

<212>Amino acid

<213> Homo sapiens

<400> 853

```

Asn Cys Arg Thr Tyr Val Phe Cys Phe Val Leu Val Phe Arg Leu Leu
 1           5           10           15
Phe Leu His Gly Ser Pro Leu Ser Pro Ser Leu Leu Ser Arg Ala Gly
           20           25           30
Leu Leu Cys Gly Ser Ala Glu Asn Pro Thr Pro Phe Leu Cys Gly Ile
           35           40           45
Thr Met Ala Ala Gly Val Ser Leu Leu Ala Leu Val Arg Val Ile
           50           55           60
Leu Ser Thr Ala Ile Leu Cys Pro Ser Gly Ala Ser Arg Arg Gln Arg
           65           70           75           80
Ser Ser Glu Val Glu Trp Gly Thr Asp Ser Gly Val Tyr Arg Leu Tyr

```

```

      85      90      95
Cys Trp Arg Val Gly Phe Leu Gly Pro Gly Gly Glu Leu Arg Leu Gly
      100      105      110
Leu Ser Glu Ala Arg Gly Gly Arg Val Trp Gly Arg Gly Glu Lys Arg
      115      120      125
Cys Arg Val Trp Ala Val Arg Ser Leu Arg Lys Gly Phe Gly Ser Val
      130      135      140
Ala Ala Leu Arg Arg Gly Ile Trp Ala Gly
145      150      154

```

```

<210> 854
<211> 90
<212> Amino acid
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(90)
<223> X = any amino acid or stop code

```

```

<400> 854
Val Thr Pro Thr Pro Pro Gln Tyr Tyr Thr Cys Ser Cys Val Leu Gly
 1      5      10      15
Phe Ile Ala Cys Ser Ile Phe Leu Gln Met Ser Leu Lys Pro Lys Val
      20      25      30
Met Leu Leu Thr Val Ala Leu Val Ala Cys Leu Val Leu Phe Asn Leu
      35      40      45
Ser Gln Cys Trp Gln Arg Asp Cys Cys Ser Gln Gly Leu Gly Asn Leu
      50      55      60
Thr Glu Pro Ser Gly Thr Asn Arg Xaa Gly Pro Ala Ala Val Ser Trp
      65      70      75      80
Ala Ser Leu Pro Ala Pro Ser Ser Cys Arg
      85      90

```

```

<210> 855
<211> 61
<212> Amino acid
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(61)
<223> X = any amino acid or stop code

```

```

<400> 855
Gly Lys Ala Gly Gly Ala Ala Gly Leu Phe Ala Lys Gln Val Gln Lys
 1      5      10      15
Lys Phe Ser Arg Ala Gln Glu Lys Xaa Thr Arg Arg Phe Gly Lys Thr
      20      25      30
Cys Gln Pro Glu Glu Arg Ala Arg Glu Glu Arg Gln Glu Gly Pro Glu
      35      40      45
Ile Glu Phe Gly Phe Ser Phe Phe Ser Leu Ser Leu Tyr
      50      55      60      61

```

<210> 856
 <211> 779
 <212> Amino acid
 <213> Homo sapiens

 <220>
 <221> misc_feature
 <222> (1)...(779)
 <223> X = any amino acid or stop code

<400> 856
 Pro Lys Arg Leu Phe Leu Phe Gln Asp Val Asn Thr Leu Gln Gly Gly
 1 5 10 15
 Gly Gln Pro Val Val Thr Pro Ser Val Gln Pro Ser Leu Gln Pro Ala
 20 25 30
 His Pro Ala Leu Pro Gln Met Thr Ser Gln Ala Pro Gln Pro Ser Val
 35 40 45
 Thr Gly Leu Gln Ala Pro Ser Ala Ala Leu Met Gln Val Ser Ser Leu
 50 55 60
 Asp Ser His Ser Ala Val Ser Gly Asn Ala Gln Ser Phe Gln Pro Tyr
 65 70 75 80
 Ala Gly Met Gln Ala Tyr Ala Tyr Pro Gln Ala Ser Ala Val Thr Ser
 85 90 95
 Gln Leu Gln Pro Val Arg Pro Leu Tyr Pro Ala Pro Leu Ser Gln Pro
 100 105 110
 Pro His Phe Gln Gly Ser Gly Asp Met Ala Ser Phe Leu Met Thr Glu
 115 120 125
 Ala Arg Gln His Asn Thr Glu Ile Arg Met Ala Val Ser Lys Val Ala
 130 135 140
 Asp Lys Met Asp His Leu Met Thr Lys Val Glu Glu Leu Gln Lys His
 145 150 155 160
 Ser Ala Gly Asn Ser Met Leu Ile Pro Ser Met Ser Val Thr Met Glu
 165 170 175
 Thr Ser Met Ile Met Ser Asn Ile Gln Arg Ile Ile Gln Glu Asn Glu
 180 185 190
 Arg Leu Lys Gln Glu Ile Leu Glu Lys Ser Asn Arg Ile Glu Glu Gln
 195 200 205
 Asn Asp Lys Ile Ser Glu Leu Ile Glu Arg Asn Gln Arg Tyr Val Glu
 210 215 220
 Gln Ser Asn Leu Met Met Glu Lys Arg Asn Asn Ser Leu Gln Thr Ala
 225 230 235 240
 Thr Glu Asn Thr Gln Ala Arg Val Leu His Ala Glu Gln Glu Lys Ala
 245 250 255
 Lys Val Thr Glu Glu Leu Ala Ala Ala Thr Ala Gln Val Ser His Leu
 260 265 270
 Gln Leu Lys Met Thr Ala His Gln Lys Lys Glu Thr Glu Leu Gln Met
 275 280 285
 Gln Leu Thr Glu Ser Leu Lys Glu Thr Asp Leu Leu Arg Gly Gln Leu
 290 295 300
 Thr Lys Val Gln Ala Lys Leu Ser Glu Leu Gln Glu Thr Ser Glu Gln
 305 310 315 320
 Ala Gln Ser Lys Phe Lys Ser Glu Lys Gln Asn Arg Lys Gln Leu Glu
 325 330 335
 Leu Lys Val Thr Ser Leu Glu Glu Glu Leu Thr Asp Leu Arg Val Glu
 340 345 350
 Lys Glu Ser Leu Glu Lys Asn Leu Ser Glu Arg Lys Lys Lys Ser Ala
 355 360 365
 Gln Glu Arg Ser Gln Ala Glu Glu Glu Ile Asp Glu Ile Arg Lys Ser
 370 375 380

```

Tyr Gln Glu Glu Leu Asp Lys Leu Arg Gln Leu Leu Lys Lys Thr Arg
385          390          395          400
Val Ser Thr Asp Gln Ala Ala Ala Glu Gln Leu Ser Leu Val Gln Ala
          405          410          415
Glu Leu Gln Thr Gln Trp Glu Ala Lys Cys Glu His Leu Leu Ala Ser
          420          425          430
Ala Lys Asp Glu His Leu Gln Gln Tyr Gln Glu Val Cys Ala Gln Arg
          435          440          445
Asp Ala Tyr Gln Gln Lys Leu Val Gln Leu Gln Glu Lys Ser Val Cys
          450          455          460
Phe Ala Cys Leu Ala Leu Gln Ala Gln Ile Thr Ala Leu Thr Lys Gln
465          470          475          480
Asn Glu Gln His Ile Lys Glu Leu Glu Lys Asn Lys Ser Gln Met Ser
          485          490          495
Gly Val Glu Ala Ala Ala Ser Asp Pro Ser Glu Lys Val Lys Lys Ile
          500          505          510
Met Asn Gln Val Phe Gln Ser Leu Arg Arg Glu Phe Glu Leu Glu Glu
          515          520          525
Ser Tyr Asn Gly Arg Thr Ile Leu Gly Thr Ile Met Asn Thr Ile Lys
          530          535          540
Met Val Thr Leu Gln Leu Leu Asn Gln Gln Glu Gln Glu Lys Glu Glu
545          550          555          560
Ser Ser Ser Glu Glu Glu Glu Lys Ala Glu Glu Arg Pro Arg Arg
          565          570          575
Pro Ser Gln Glu Gln Ser Ala Ser Ala Ser Ser Gly Gln Pro Gln Ala
          580          585          590
Pro Leu Asn Arg Glu Arg Pro Glu Ser Pro Met Val Pro Ser Glu Gln
          595          600          605
Val Val Glu Glu Ala Val Pro Leu Pro Pro Gln Ala Leu Thr Thr Ser
          610          615          620
Gln Asp Gly His Arg Arg Lys Gly Asp Ser Glu Ala Glu Ala Leu Ser
625          630          635          640
Glu Ile Lys Asp Gly Ser Leu Pro Pro Glu Leu Ser Cys Ile Pro Ser
          645          650          655
His Arg Val Leu Gly Pro Pro Thr Ser Ile Pro Pro Glu Pro Leu Gly
          660          665          670
Pro Val Ser Met Asp Ser Glu Cys Glu Glu Ser Leu Ala Ala Ser Pro
          675          680          685
Met Ala Ala Lys Pro Asp Asn Pro Ser Gly Lys Val Cys Val Gln Gly
690          695          700
Lys Xaa Ala Pro Asp Gly Pro Thr Tyr Lys Glu Ser Ser Thr Arg Leu
705          710          715          720
Phe Pro Gly Phe Gln Asp Pro Glu Glu Gly Asp Pro Leu Ala Leu Gly
          725          730          735
Leu Glu Ser Pro Gly Glu Pro Gln Pro Gln Leu Gln Gly Lys Val
          740          745          750
Asp Val His Xaa Val Pro Pro Val Pro His Lys Gly Ala Phe Gln Glu
          755          760          765
Gln Glu Gly Arg Phe Pro Gln Phe Cys Arg Glu
          770          775          779

```

<210> 857

<211> 510

<212>Amino acid

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)... (510)

<223> X = any amino acid or stop code

<400> 857

Ser	Glu	Thr	Ala	Gln	Gln	Ile	Ile	Asp	Arg	Leu	Arg	Val	Lys	Leu	Ala
1				5				10						15	
Lys	Glu	Pro	Gly	Ala	Asn	Leu	Phe	Leu	Met	Ala	Val	Gln	Asp	Ile	Arg
			20					25					30		
Val	Gly	Gly	Arg	Gln	Ser	Asn	Ala	Ser	Tyr	Gln	Tyr	Thr	Leu	Leu	Ser
		35					40					45			
Asp	Asp	Leu	Ala	Ala	Leu	Arg	Glu	Trp	Glu	Pro	Lys	Ile	Arg	Lys	Lys
	50					55					60				
Leu	Ala	Thr	Leu	Pro	Glu	Leu	Ala	Asp	Val	Asn	Ser	Asp	Gln	Gln	Asp
65					70					75					80
Asn	Gly	Ala	Glu	Met	Asn	Leu	Val	Tyr	Asp	Arg	Asp	Thr	Met	Ala	Arg
				85					90					95	
Leu	Gly	Ile	Asp	Val	Gln	Ala	Ala	Asn	Ser	Leu	Leu	Asn	Asn	Ala	Phe
			100					105					110		
Gly	Gln	Arg	Gln	Ile	Ser	Thr	Ile	Tyr	Gln	Pro	Met	Asn	Gln	Tyr	Lys
		115					120					125			
Val	Val	Met	Glu	Val	Asp	Pro	Arg	Tyr	Thr	Gln	Asp	Ile	Ser	Ala	Leu
	130					135					140				
Glu	Lys	Met	Phe	Val	Ile	Asn	Asn	Glu	Gly	Lys	Ala	Ile	Pro	Leu	Ser
145					150					155					160
Tyr	Phe	Ala	Lys	Trp	Gln	Pro	Ala	Asn	Ala	Pro	Leu	Ser	Val	Asn	His
			165						170					175	
Gln	Gly	Leu	Ser	Ala	Ala	Leu	Thr	Ile	Ser	Phe	Asn	Leu	Pro	Thr	Gly
		180					185						190		
Lys	Ser	Leu	Ser	Asp	Ala	Ser	Ala	Ala	Ile	Asp	Arg	Ala	Met	Ser	Gln
	195						200					205			
Leu	Gly	Val	Pro	Ser	Thr	Val	Arg	Gly	Ser	Phe	Ala	Gly	Pro	Ala	Gln
	210					215					220				
Val	Phe	Gln	Glu	Thr	Met	Asn	Ser	Gln	Val	Ile	Leu	Ile	Ile	Ala	Ala
225					230					235					240
Ile	Ala	Thr	Val	Tyr	Ile	Val	Leu	Gly	Ile	Pro	Tyr	Glu	Arg	Tyr	Val
			245						250					255	
His	Pro	Pro	Thr	Ile	Leu	Leu	Xaa	Arg	Pro	Gly	Ala	Asn	Leu	Phe	Leu
			260					265					270		
Met	Ala	Val	Gln	Asp	Ile	Arg	Val	Gly	Gly	Arg	Gln	Ser	Asn	Ala	Ser
		275					280					285			
Tyr	Gln	Tyr	Thr	Leu	Leu	Ser	Asp	Asp	Leu	Ala	Ala	Leu	Arg	Glu	Trp
	290					295					300				
Glu	Pro	Lys	Ile	Arg	Lys	Lys	Leu	Ala	Thr	Leu	Pro	Glu	Leu	Ala	Asp
305					310					315					320
Val	Asn	Ser	Asp	Gln	Gln	Asp	Asn	Gly	Ala	Glu	Met	Asn	Leu	Val	Tyr
			325						330					335	
Asp	Arg	Asp	Thr	Met	Ala	Arg	Leu	Gly	Ile	Asp	Val	Gln	Ala	Ala	Asn
			340					345					350		
Ser	Leu	Leu	Asn	Asn	Ala	Phe	Gly	Gln	Arg	Gln	Ile	Ser	Thr	Ile	Tyr
		355					360					365			
Gln	Pro	Met	Asn	Gln	Tyr	Lys	Val	Val	Met	Glu	Val	Asp	Pro	Arg	Tyr
	370					375					380				
Thr	Gln	Asp	Ile	Ser	Ala	Leu	Glu	Lys	Met	Phe	Val	Ile	Asn	Asn	Glu
385					390					395					400
Gly	Lys	Ala	Ile	Pro	Leu	Ser	Tyr	Phe	Ala	Lys	Trp	Gln	Pro	Ala	Asn
			405						410					415	
Ala	Pro	Leu	Ser	Val	Asn	His	Gln	Gly	Leu	Ser	Ala	Ala	Leu	Thr	Ile
			420					425					430		
Ser	Phe	Asn	Leu	Pro	Thr	Gly	Lys	Ser	Leu	Ser	Asp	Ala	Ser	Ala	Ala
		435					440					445			
Ile	Asp	Arg	Ala	Met	Ser	Gln	Leu	Gly	Val	Pro	Ser	Thr	Val	Arg	Gly
	450					455					460				
Ser	Phe	Ala	Gly	Pro	Ala	Gln	Val	Phe	Gln	Glu	Thr	Met	Asn	Ser	Gln
465					470					475					480
Val	Ile	Leu	Ile	Ile	Ala	Ala	Ile	Ala	Thr	Val	Tyr	Ile	Val	Leu	Gly

Ile Pro Tyr Glu Arg Tyr Val His Pro Pro Thr Ile Leu Leu
 500 485 490 495
 505 510

<210> 858
 <211> 137
 <212> Amino acid
 <213> Homo sapiens
 <220>
 <221> misc_feature
 <222> (1)...(137)
 <223> X = any amino acid or stop code

<400> 858
 Ile Ile Thr Pro Asp Ala Met Gly Cys Gln Lys Asp Ile Ala Glu Lys
 1 5 10 15
 Ile Gln Lys Gln Gly Gly Asp Tyr Leu Phe Ala Val Lys Gly Asn Gln
 20 25 30
 Gly Arg Leu Asn Lys Ala Phe Glu Glu Lys Phe Pro Leu Lys Glu Leu
 35 40 45
 Asn Asn Pro Glu His Asp Ser Tyr Ala Ile Ser Glu Lys Ser His Gly
 50 55 60
 Arg Glu Glu Ile Arg Leu His Ile Val Cys Asp Val Pro Asp Glu Leu
 65 70 75 80
 Ile Asp Phe Thr Phe Glu Trp Lys Gly Leu Lys Lys Leu Cys Val Ala
 85 90 95
 Val Ser Phe Arg Ser Ile Ile Ala Glu Gln Lys Lys Glu Pro Glu Met
 100 105 110
 Thr Val Arg Tyr Asn Ile Ser Xaa Leu Gly Ile Ala Gly Asp Ile Ser
 115 120 125
 Val Thr Ala Ile Ser Gly Thr Asp Asp
 130 135 137

<210> 859
 <211> 123
 <212> Amino acid
 <213> Homo sapiens
 <220>
 <221> misc_feature
 <222> (1)...(123)
 <223> X = any amino acid or stop code

<400> 859
 His Tyr Leu Lys Met Leu Thr Gln Ala Arg Arg Glu Val Ile Ile Ala
 1 5 10 15
 Asn Ala Tyr Phe Phe Pro Gly Tyr Arg Phe Leu His Ala Leu Arg Lys
 20 25 30
 Ala Ala Arg Arg Gly Val Arg Ile Lys Leu Ile Ile Gln Gly Glu Pro
 35 40 45
 Asp Met Pro Ile Val Arg Val Gly Ala Arg Leu Leu Tyr Asn Tyr Leu
 50 55 60
 Val Lys Gly Gly Val Gln Val Phe Glu Tyr Arg Arg Arg Pro Leu His

```

      65              70              75              80
Gly Lys Val Ala Leu Met Asp Asp His Trp Ala Thr Val Gly Ser Ser
      85              90              95
Asn Leu His Pro Val Ser Xaa Ser Gly Asn Leu Gln Ala Asn Val Ile
      100             105             110
Leu His Val Leu Arg Val Pro Thr Leu Asn Pro
      115             120             123

```

```

<210> 860
<211> 190
<212> Amino acid
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(190)
<223> X = any amino acid or stop code

```

```

<400> 860
Cys Trp Ser Lys Ser Ala Ala Phe His Ser Lys Leu Ala Thr Thr Cys
 1.              5              10              15
Ile Val Pro Val Cys Ala Ala Gly His Cys Ser Ala Ala Trp Xaa Ser
      20              25              30
Leu Arg Pro Ile Glu Ala Leu Ala Lys Glu Val Arg Glu Leu Lys Xaa
 35              40              45
His Thr Arg Xaa Leu Leu Asn Pro Ala Thr Thr Arg Glu Leu Thr Ser
 50              55              60
Leu Gly Arg Asn Leu Asn Arg Leu Leu Lys Ser Glu Arg Glu Arg Tyr
 65              70              75              80
Asp Lys Tyr Arg Thr Thr Leu Thr Asp Leu Thr His Ser Leu Lys Thr
      85              90              95
Pro Leu Ala Val Leu Gln Ser Thr Leu Arg Ser Leu Arg Ser Glu Lys
      100             105             110
Met Ser Val Ser Asp Ala Glu Pro Val Met Leu Glu Gln Ile Ser Arg
      115             120             125
Ile Ser Gln Gln Ile Gly Tyr Tyr Leu His Arg Ala Ser Met Arg Gly
      130             135             140
Gly Thr Leu Leu Ser Arg Glu Leu His Pro Val Ala Pro Leu Leu Asp
      145             150             155             160
Asn Leu Thr Ser Ala Leu Ile Lys Gly Lys Pro Arg Lys Gly Gly Asn
      165             170             175
Val Thr Val Phe Pro Phe Thr Ala Met Tyr Arg Asp Gly His
      180             185             190

```

```

<210> 861
<211> 241
<212> Amino acid
<213> Homo sapiens

```

```

<400> 861
Gly Asn Thr Val Met Phe Gln His Leu Met Gln Lys Arg Lys His Thr
 1              5              10              15
Gln Trp Thr Tyr Gly Pro Leu Thr Ser Thr Leu Tyr Asp Leu Thr Glu
      20              25              30

```

```

Ile Asp Ser Ser Gly Asp Glu Gln Ser Leu Leu Glu Leu Ile Ile Thr
   35           40           45
Thr Lys Lys Arg Glu Ala Arg Gln Ile Leu Asp Gln Thr Pro Val Lys
   50           55           60
Glu Leu Val Ser Leu Lys Trp Lys Arg Tyr Gly Arg Pro Tyr Phe Cys
   65           70           75           80
Met Leu Gly Ala Ile Tyr Leu Leu Tyr Ile Ile Cys Phe Thr Met Cys
           85           90           95
Cys Ile Tyr Arg Pro Leu Lys Pro Arg Thr Asn Asn Arg Thr Ser Pro
           100           105           110
Arg Asp Asn Thr Leu Leu Gln Gln Lys Leu Leu Gln Glu Ala Tyr Met
           115           120           125
Thr Pro Lys Asp Asp Ile Arg Leu Val Gly Glu Leu Val Thr Val Ile
           130           135           140
Gly Ala Ile Ile Ile Leu Leu Val Glu Val Pro Asp Ile Phe Arg Met
           145           150           155           160
Gly Val Thr Arg Phe Phe Gly Gln Thr Ile Leu Gly Gly Pro Phe His
           165           170           175
Val Leu Ile Ile Thr Tyr Ala Phe Met Val Leu Val Thr Met Val Met
           180           185           190
Arg Leu Ile Ser Ala Ser Gly Glu Val Val Pro Met Ser Phe Ala Leu
           195           200           205
Val Leu Gly Trp Cys Asn Val Met Tyr Phe Ala Arg Gly Phe Gln Met
           210           215           220
Leu Gly Pro Phe Thr Ile Met Ile Gln Lys Met Ile Phe Gly Asp Leu
           225           230           235           240
Met
241

```

<210> 862
 <211> 45
 <212>Amino acid
 <213> Homo sapiens

```

<400> 862
Glu Lys Ala Ala Ala Asn Ile Asp Glu Val Gln Lys Ser Asp Val
  1           5           10           15
Ser Ser Thr Gly Gln Gly Val Ile Asp Lys Asp Ala Leu Gly Pro Met
           20           25           30
Met Leu Glu Val Ala His Leu His Phe Ser Ala Val Phe
           35           40           45

```

<210> 863
 <211> 120
 <212>Amino acid
 <213> Homo sapiens

```

<400> 863
Leu Glu Val Pro Ser Glu Val Thr Pro Leu Gly Phe Ala Met Gln Ala
  1           5           10           15
Thr Lys Thr Leu Leu Arg Thr Cys Cys Leu Gln Glu Phe Asn Ile
           20           25           30
Met Glu Lys Asn Lys Gly Trp Ala Leu Leu Gly Gly Lys Asp Gly His
           35           40           45

```

```

Leu Gln Gly Leu Phe Leu Leu Ala Asn Ala Leu Leu Glu Arg Asn Gln
  50                      55                      60
Leu Leu Ala Gln Lys Val Met Tyr Leu Leu Val Pro Leu Leu Asn Arg
  65                      70                      75                      80
Gly Asn Asp Lys His Lys Leu Thr Ser Ala Gly Phe Phe Val Glu Leu
                      85                      90                      95
Leu Arg Ser Pro Val Ala Lys Arg Leu Pro Ser Ile Tyr Ser Val Ala
                      100                      105                      110
Arg Phe Lys Asp Trp Leu Gln Asp
      115                      120

```

```

<210> 864
<211> 124
<212>Amino acid
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(124)
<223> X = any amino acid or stop code

```

```

<400> 864
Arg Pro Ala Pro Ala Pro Ser Ala Ala Pro Glu Glu Ala Pro Ser Pro
  1                      5                      10                      15
Gly Val Lys Gly Arg Gly Met Ala Lys Arg Arg Val Pro Ala Pro Val
                      20                      25                      30
Trp Gly Gly Ala Gly Gly Gly Thr Lys Ser Ala Arg Arg Ala Ala Ala
      35                      40                      45
Ala Pro Asp Thr Glu Arg Ser Glu Glu Gly Gly Arg Ala Val Lys Glu
      50                      55                      60
Ala Tyr Pro Ser Ser Arg Gln Pro Pro Pro Pro Ser Pro Xaa Pro Leu
      65                      70                      75                      80
Arg Cys Ala Arg Arg Cys His Pro Asn Leu Ala Pro Ser Met Pro Ile
                      85                      90                      95
Ser Asn Arg Glu Gly Lys Gly Lys Arg Arg Glu Glu Lys Ile Arg Pro
                      100                      105                      110
Leu Ser Pro Ala Ser Thr His Thr Ser Ala Arg Ala
      115                      120                      124

```

```

<210> 865
<211> 120
<212>Amino acid
<213> Homo sapiens

```

```

<400> 865
Leu Gln Gly Val His Gly Ser Ser Ser Thr Phe Cys Ser Ser Leu Ser
  1                      5                      10                      15
Ser Asp Phe Asp Pro Leu Glu Tyr Cys Ser Pro Lys Gly Asp Pro Gln
                      20                      25                      30
Arg Val Asp Met Gln Pro Ser Val Thr Ser Arg Pro Arg Ser Leu Asp
      35                      40                      45
Ser Glu Val Pro Thr Gly Glu Thr Gln Val Ser Ser His Val His Tyr
      50                      55                      60
His Arg His Arg His His His Tyr Lys Lys Arg Phe Gln Arg His Gly

```

```

65          70          75          80
Arg Lys Pro Gly Pro Glu Thr Gly Val Pro Gln Ser Arg Pro Pro Ile
          85          90          95
Pro Arg Thr Gln Pro Gln Pro Glu Pro Pro Ser Pro Asp Gln Gln Val
          100          105          110
Thr Arg Ser Asn Ser Ala Ala Pro
          115          120

```

<210> 866
 <211> 82
 <212> Amino acid
 <213> Homo sapiens

```

<400> 866
Met Ala Asp Pro Asp Pro Arg Tyr Pro Arg Ser Ser Ile Glu Asp Asp
 1          5          10          15
Phe Asn Tyr Gly Ser Ser Glu Ala Ser Asp Thr Val His Ile Arg Met
          20          25          30
Ala Phe Leu Arg Arg Val Tyr Ser Ile Leu Ser Leu Gln Asp Leu Leu
          35          40          45
Ala Thr Val Thr Ser Thr Asp Asn Leu Ala Phe Glu Asp Gly Arg Thr
          50          55          60
Asp Trp Leu Gln Arg Pro Asp Cys Val Ser Phe Lys Ile His Val Leu
 65          70          75          80
Pro Met
 82

```

<210> 867
 <211> 60
 <212> Amino acid
 <213> Homo sapiens

```

<400> 867
Ala Gly Met Ser Val Val Val Val Pro Pro Ile Gly Ser Ser Tyr Leu
 1          5          10          15
Gly Leu Ile Ser Gln Glu His Phe Pro Asn Glu Phe Thr Ser Gly Asp
          20          25          30
Gly Lys Lys Ala His Gln Asp Phe Gly Tyr Phe Tyr Gly Ser Ser Tyr
          35          40          45
Val Ala Ala Ser Asp Ser Ser Arg Thr Pro Gly Leu
 50          55          60

```

<210> 868
 <211> 78
 <212> Amino acid
 <213> Homo sapiens

```

<400> 868
Val Ala Ala Ala Leu Thr Leu Phe Pro Gln Gln Leu Ser Pro Pro Gly

```

```

      1           5           10           15
Ala Trp Gly Leu Gly Leu Ser Ala Cys Phe Cys Cys Ala Glu Gly Phe
      20           25           30
Ser Arg Leu Asn Gln Gln Val Leu Ser Ser Ser Leu Leu Leu Ser
      35           40           45
Arg Thr Asn Cys Pro Cys Lys Tyr Ser Phe Leu Asp Asn Leu Lys Lys
      50           55           60
Leu Thr Pro Arg Arg Asp Val Pro Thr Tyr Pro Lys Val Arg
      65           70           75           78

```

<210> 869
 <211> 119
 <212>Amino acid
 <213> Homo sapiens

```

      <400> 869
Arg Asp Asp Ala Cys Leu Tyr Ser Pro Ala Ser Ala Pro Glu Val Ile
      1           5           10           15
Thr Val Gly Ala Thr Asn Ala Gln Asp Gln Pro Val Thr Leu Gly Thr
      20           25           30
Leu Gly Thr Asn Phe Gly Arg Cys Val Asp Leu Phe Ala Pro Gly Glu
      35           40           45
Asp Ile Ile Gly Ala Ser Ser Asp Cys Ser Thr Cys Phe Val Ser Gln
      50           55           60
Ser Gly Thr Ser Gln Ala Ala His Val Ala Gly Ile Ala Ala Met
      65           70           75           80
Met Leu Ser Ala Glu Pro Glu Leu Thr Leu Ala Glu Leu Arg Gln Arg
      85           90           95
Leu Ile His Phe Ser Ala Lys Asp Val Ile Asn Glu Ala Trp Phe Pro
      100          105          110
Glu Asp Gln Arg Val Leu Thr
      115          119

```

<210> 870
 <211> 34
 <212>Amino acid
 <213> Homo sapiens

```

      <400> 870
Leu Glu Ile Lys Phe Leu Glu Gln Val Asp Gln Phe Tyr Asp Asp Asn
      1           5           10           15
Phe Pro Met Glu Ile Arg His Leu Leu Ala Gln Trp Ile Glu Asn Gln
      20           25           30
Asp Trp
      34

```

<210> 871
 <211> 154
 <212>Amino acid
 <213> Homo sapiens

<400> 871
 Glu Ala Gly Asp Ala Asp Glu Asp Glu Ala Asp Ala Asn Ser Ser Asp
 1 5 10 15
 Cys Glu Pro Glu Gly Pro Val Glu Ala Glu Glu Pro Pro Gln Glu Asp
 20 25 30
 Ser Ser Ser Gln Ser Asp Ser Val Glu Asp Arg Ser Glu Asp Glu Glu
 35 40 45
 Asp Glu His Ser Glu Glu Glu Glu Thr Ser Gly Ser Ser Ala Ser Glu
 50 55 60
 Glu Ser Glu Ser Glu Glu Ser Glu Asp Ala Gln Ser Gln Ser Gln Ala
 65 70 75 80
 Asp Glu Glu Glu Glu Asp Asp Asp Phe Gly Val Glu Tyr Leu Leu Ala
 85 90 95
 Arg Asp Glu Glu Gln Ser Glu Ala Asp Ala Gly Ser Gly Pro Pro Thr
 100 105 110
 Pro Gly Pro Thr Thr Leu Gly Pro Lys Lys Glu Ile Thr Asp Ile Ala
 115 120 125
 Ala Ala Ala Glu Ser Leu Gln Pro Lys Gly Tyr Thr Leu Ala Thr Thr
 130 135 140
 Gln Val Lys Thr Pro Ile Pro Leu Leu Leu
 145 150 154

<210> 872
 <211> 118
 <212> Amino acid
 <213> Homo sapiens

<400> 872
 Leu Lys Asn Leu Arg Glu Leu Leu Leu Glu Asp Asn Gln Leu Pro Gln
 1 5 10 15
 Ile Pro Ser Gly Leu Pro Glu Ser Leu Thr Glu Leu Ser Leu Ile Gln
 20 25 30
 Thr Asn Ile Tyr Asn Ile Thr Lys Glu Gly Ile Ser Arg Leu Ile Asn
 35 40 45
 Leu Lys Asn Leu Tyr Leu Ala Trp Asn Cys Tyr Phe Asn Lys Val Cys
 50 55 60
 Glu Lys Thr Asn Ile Glu Asp Gly Val Phe Glu Thr Leu Thr Asn Leu
 65 70 75 80
 Glu Leu Leu Ser Leu Ser Phe Asn Ser Leu Ser His Val Pro Pro Lys
 85 90 95
 Leu Pro Ser Ser Leu Arg Lys Leu Phe Leu Ser Asn Thr Gln Ile Lys
 100 105 110
 Tyr Ile Ser Glu Glu Asp
 115 118

<210> 873
 <211> 42
 <212> Amino acid
 <213> Homo sapiens

<400> 873
 Met Arg Ser Gln Ala Leu Gly Gln Ser Ala Pro Ser Leu Thr Ala Ser

```

      1           5           10           15
Leu Lys Glu Leu Ser Leu Pro Arg Arg Gly Ser Phe Pro Val Cys Pro
      20           25           30
Asn Ala Gly Arg Thr Ser Pro Leu Gly *
      35           40  41

```

<210> 874
 <211> 70
 <212>Amino acid
 <213> Homo sapiens

```

      <400> 874
Leu Leu Cys Val Cys Leu Pro Val Gly Ala Cys Pro Ser Leu Ser Leu
      1           5           10           15
Leu Thr Ala Pro Leu Asn Gln Leu Met Arg Cys Leu Arg Lys Tyr Gln
      20           25           30
Ser Arg Thr Pro Ser Pro Leu Leu His Ser Val Pro Ser Glu Ile Val
      35           40           45
Phe Asp Phe Glu Pro Gly Pro Val Phe Arg Gly Ser Trp Ala Leu Leu
      50           55           60
Ser Trp Ser Thr Arg Pro
      65           70

```

<210> 875
 <211> 41
 <212>Amino acid
 <213> Homo sapiens

```

      <400> 875
Gln Thr Pro Asp Lys Lys Gln Asn Asp Gln Arg Asn Arg Lys Arg Lys
      1           5           10           15
Ala Glu Pro Tyr Glu Thr Ser Gln Gly Ser Asn Asn Phe Val Ser Thr
      20           25           30
Lys Val Leu Asn Ser Asn Val Leu Arg
      35           40  41

```

<210> 876
 <211> 139
 <212>Amino acid
 <213> Homo sapiens

```

      <400> 876
Tyr Phe Ile Ile Lys Gly Met Val Glu Leu Val Pro Ala Ser Asp Thr
      1           5           10           15
Leu Arg Lys Ile Gln Val Glu Tyr Gly Val Thr Gly Ser Phe Lys Asp
      20           25           30
Lys Pro Leu Ala Glu Trp Leu Arg Lys Tyr Asn Pro Ser Glu Glu Glu
      35           40           45
Tyr Glu Lys Ala Ser Glu Asn Phe Ile Tyr Ser Cys Ala Gly Cys Cys

```

```

      50              55              60
Val Ala Thr Tyr Val Leu Gly Ile Cys Asp Arg His Asn Asp Asn Ile
 65              70              75              80
Met Leu Arg Ser Thr Gly His Met Phe His Ile Asp Phe Gly Lys Phe
      85              90              95
Leu Gly His Ala Gln Met Phe Gly Ser Phe Lys Arg Asp Arg Ala Pro
      100              105              110
Phe Val Leu Thr Ser Asp Met Ala Tyr Val Ile Asn Gly Gly Glu Lys
      115              120              125
Pro Thr Ile Arg Phe Gln Leu Phe Val Asp Leu
      130              135              139

```

```

<210> 877
<211> 350
<212> Amino acid
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(350)
<223> X = any amino acid or stop code

```

```

<400> 877
Pro Ser Pro Leu Pro Ser Leu Ser Leu Pro Pro Pro Val Ala Pro Gly
 1              5              10              15
Gly Gln Glu Ser Pro Ser Pro His Thr Ala Glu Val Glu Ser Glu Ala
      20              25              30
Ser Pro Pro Ala Arg Pro Leu Pro Gly Glu Ala Arg Leu Ala Pro
      35              40              45
Ile Ser Glu Glu Gly Lys Pro Gln Leu Val Gly Arg Phe Gln Val Thr
      50              55              60
Ser Ser Lys Asn Arg Leu Ser Leu Phe Pro Cys Ser Gln His Pro Pro
      65              70              75              80
Leu Ser Leu Val Leu Gln Asn Leu Gln Pro Leu Ser Ser Leu Gln Arg
      85              90              95
Ala Gln Ile Gln Arg Thr Val Pro Gly Gly Gly Pro Glu Thr Arg Glu
      100              105              110
Ala Leu Ala Glu Ser Asp Arg Ala Ala Glu Gly Leu Gly Ala Gly Val
      115              120              125
Glu Glu Glu Gly Asp Asp Gly Lys Glu Pro Gln Val Gly Gly Ser Pro
      130              135              140
Gln Pro Leu Ser His Pro Ser Pro Val Trp Met Asn Tyr Ser Tyr Ser
      145              150              155              160
Ser Leu Cys Leu Ser Ser Glu Glu Ser Glu Ser Ser Gly Glu Asp Glu
      165              170              175
Glu Phe Trp Ala Glu Leu Gln Ser Leu Arg Gln Lys His Leu Ser Glu
      180              185              190
Val Glu Thr Leu Gln Thr Leu Gln Lys Lys Glu Ile Glu Asp Leu Tyr
      195              200              205
Ser Arg Leu Gly Lys Gln Pro Pro Gly Ile Val Ala Pro Ala Ala
      210              215              220
Met Leu Ser Ser Arg Gln Arg Arg Leu Ser Lys Gly Ser Phe Pro Thr
      225              230              235              240
Ser Arg Arg Asn Ser Leu Gln Arg Ser Glu Pro Pro Gly Pro Gly Glu
      245              250              255
Thr Ala Gly His Pro Ala Ser Ile Phe Ser Leu Arg Pro Leu Ser Val
      260              265              270
Asp Cys Phe Ser Pro Gly Pro Gly Leu Pro Arg Gly Asn Arg Pro
      275              280              285

```

Pro Leu Pro Thr Ser Pro Phe Leu Thr Xaa Cys Ser Pro Ser Pro His
 290 295 300
 Thr Ala Glu Val Glu Ser Glu Ala Ser Pro Pro Pro Ala Arg Pro Leu
 305 310 315 320
 Pro Gly Glu Ala Arg Leu Ala Pro Ile Ser Glu Glu Gly Lys Pro Gln
 325 330 335
 Leu Val Gly Arg Phe Pro Ser Asp Phe Ile Gln Gly Thr Gly
 340 345 350

<210> 878
 <211> 112
 <212>Amino acid
 <213> Homo sapiens

<400> 878
 Arg Arg Phe Val Ser Gln Glu Thr Gly Asn Leu Tyr Ile Ala Lys Val
 1 5 10 15
 Glu Lys Ser Asp Val Gly Asn Tyr Thr Cys Val Val Thr Asn Thr Val
 20 25 30
 Thr Asn His Lys Val Leu Gly Pro Pro Thr Pro Leu Ile Leu Arg Asn
 35 40 45
 Asp Gly Val Met Gly Glu Tyr Glu Pro Lys Ile Glu Val Gln Phe Pro
 50 55 60
 Glu Thr Val Pro Thr Ala Lys Gly Ala Thr Val Lys Leu Glu Cys Phe
 65 70 75 80
 Ala Leu Gly Asn Pro Val Pro Thr Ile Ile Trp Arg Arg Ala Asp Gly
 85 90 95
 Lys Pro Ile Ala Arg Lys Ala Arg Arg His Lys Ser Arg Val Gly Lys
 100 105 110 112

<210> 879
 <211> 282
 <212>Amino acid
 <213> Homo sapiens

<400> 879
 Met Leu Arg Thr Cys Tyr Val Leu Cys Ser Gln Ala Gly Pro Arg Ser
 1 5 10 15
 Arg Gly Trp Gln Ser Leu Ser Phe Asp Gly Gly Ala Phe His Leu Lys
 20 25 30
 Gly Thr Gly Glu Leu Thr Arg Ala Leu Leu Val Leu Arg Leu Cys Ala
 35 40 45
 Trp Pro Pro Leu Val Thr His Gly Leu Leu Leu Gln Ala Trp Ser Arg
 50 55 60
 Arg Leu Leu Gly Ser Arg Leu Ser Gly Ala Phe Leu Arg Ala Ser Val
 65 70 75 80
 Tyr Gly Gln Phe Val Ala Gly Glu Thr Ala Glu Glu Val Lys Gly Cys
 85 90 95
 Val Gln Gln Leu Arg Thr Leu Ser Leu Arg Pro Leu Leu Ala Val Pro
 100 105 110
 Thr Glu Glu Glu Pro Asp Ser Ala Ala Lys Ser Gly Glu Ala Trp Tyr
 115 120 125

Glu Gly Asn Leu Gly Ala Met Leu Arg Cys Val Asp Leu Ser Arg Gly
 130 135 140
 Leu Leu Glu Pro Pro Ser Leu Ala Glu Ala Ser Leu Met Gln Leu Lys
 145 150 155 160
 Val Thr Ala Leu Thr Ser Thr Arg Leu Cys Lys Glu Leu Ala Ser Trp
 165 170 175
 Val Arg Arg Pro Gly Ala Ser Leu Glu Leu Ser Pro Glu Arg Leu Ala
 180 185 190
 Glu Ala Met Asp Ser Gly Gln Asn Leu Gln Val Ser Cys Leu Asn Ala
 195 200 205
 Glu Gln Asn Gln His Leu Arg Ala Ser Leu Ser Arg Leu His Arg Val
 210 215 220
 Ala Gln Tyr Ala Arg Ala Gln His Val Arg Leu Leu Val Asp Ala Glu
 225 230 235 240
 Tyr Thr Ser Leu Asn Pro Ala Leu Ser Leu Leu Val Ala Ala Leu Ala
 245 250 255
 Val Arg Trp Asn Ser Pro Gly Glu Gly Gly Pro Trp Val Trp Asn Thr
 260 265 270
 Tyr Gln Ala Cys Leu Lys Asp Thr Phe *
 275 280 281

<210> 880
 <211> 29
 <212> Amino acid
 <213> Homo sapiens

<400> 880
 Pro His His Arg Ile Ala Gly Asp Thr Ala Ile Asp Lys Asn Ile His
 1 5 10 15
 Gln Ser Val Ser Glu Gln Ile Lys Lys Asn Phe Ala Lys
 20 25 29

<210> 881
 <211> 45
 <212> Amino acid
 <213> Homo sapiens

<400> 881
 Gln Met Thr Asn Pro Phe Phe Leu Cys Phe Thr Thr Met Ile Ser Asn
 1 5 10 15
 Cys Asn Phe Phe Lys Gly Pro Pro Gly Pro Pro Gly Glu Lys Gly Asp
 20 25 30
 Arg Gly Pro Thr Gly Glu Ser Gly Pro Arg Gly Phe Pro
 35 40 45

<210> 882
 <211> 54
 <212> Amino acid
 <213> Homo sapiens

<400> 882

```

Asn Gly Ile Ile Ala Ser Phe Phe Leu Arg Thr Phe Ile Phe Cys Phe
 1           5           10           15
Ile His Ile Gln Gly Cys Gln Ala Gly Gln Thr Ile Lys Val Gln Val
           20           25           30
Ser Phe Asp Leu Leu Ser Leu Met Phe Thr Phe Val Ser Pro Cys Thr
       35           40           45
Asn Asp Leu Ile Ile His
 50           54

```

<210> 883

<211> 479

<212>Amino acid

<213> Homo sapiens

<400> 883

```

Lys Leu Ser Val Asn His Arg Arg Thr His Leu Thr Lys Leu Met His
 1           5           10           15
Thr Val Glu Gln Ala Thr Leu Arg Ile Ser Gln Ser Phe Gln Lys Thr
           20           25           30
Thr Glu Phe Asp Thr Asn Ser Thr Asp Ile Ala Leu Lys Val Phe Phe
           35           40           45
Phe Asp Ser Tyr Asn Met Lys His Ile His Pro His Met Asn Met Asp
 50           55           60
Gly Asp Tyr Ile Asn Ile Phe Pro Lys Arg Lys Ala Ala Tyr Asp Ser
 65           70           75           80
Asn Gly Asn Val Ala Val Ala Phe Leu Tyr Tyr Lys Ser Ile Gly Pro
           85           90           95
Leu Leu Ser Ser Ser Asp Asn Phe Leu Leu Lys Pro Gln Asn Tyr Asp
           100           105           110
Asn Ser Glu Glu Glu Arg Val Ile Ser Ser Val Ile Ser Val Ser
 115           120           125
Met Ser Ser Asn Pro Pro Thr Leu Tyr Glu Leu Glu Lys Ile Thr Phe
 130           135           140
Thr Leu Ser His Arg Lys Val Thr Asp Arg Tyr Arg Ser Leu Cys Ala
 145           150           155           160
Phe Trp Asn Tyr Ser Pro Asp Thr Met Asn Gly Ser Trp Ser Ser Glu
           165           170           175
Gly Cys Glu Leu Thr Tyr Ser Asn Glu Thr His Thr Ser Cys Arg Cys
           180           185           190
Asn His Leu Thr His Phe Ala Ile Leu Met Ser Ser Gly Pro Ser Ile
 195           200           205
Gly Ile Lys Asp Tyr Asn Ile Leu Thr Arg Ile Thr Gln Leu Gly Ile
 210           215           220
Ile Ile Ser Leu Ile Cys Leu Ala Ile Cys Ile Phe Thr Phe Trp Phe
 225           230           235           240
Phe Ser Glu Ile Gln Ser Thr Arg Thr Thr Ile His Lys Asn Leu Cys
           245           250           255
Cys Ser Leu Phe Leu Ala Glu Leu Val Phe Leu Val Gly Ile Asn Thr
 260           265           270
Asn Thr Asn Lys Leu Phe Cys Ser Ile Ile Ala Gly Leu Leu His Tyr
 275           280           285
Phe Phe Leu Ala Ala Phe Ala Trp Met Cys Ile Glu Gly Ile His Leu
 290           295           300
Tyr Leu Ile Val Val Gly Val Ile Tyr Asn Lys Gly Phe Leu His Lys
 305           310           315           320
Asn Phe Tyr Ile Phe Gly Tyr Leu Ser Pro Ala Val Val Val Gly Phe
           325           330           335

```

```

Ser Ala Ala Leu Gly Tyr Arg Tyr Tyr Gly Thr Thr Lys Val Cys Trp
      340      345      350
Leu Ser Thr Glu Asn Asn Phe Ile Trp Ser Phe Ile Gly Pro Ala Cys
      355      360      365
Leu Ile Ile Leu Val Asn Leu Leu Ala Phe Gly Val Ile Ile Tyr Lys
      370      375      380
Val Phe Arg His Thr Ala Gly Leu Lys Pro Glu Val Ser Cys Phe Glu
      385      390      395      400
Asn Ile Arg Ser Cys Ala Arg Gly Ala Leu Ala Leu Leu Phe Leu Leu
      405      410      415
Gly Thr Thr Trp Ile Phe Gly Val Leu His Val Val His Ala Ser Val
      420      425      430
Val Thr Ala Tyr Leu Phe Thr Val Ser Asn Ala Phe Gln Gly Met Phe
      435      440      445
Ile Phe Leu Phe Leu Cys Val Leu Ser Arg Lys Ile Gln Glu Glu Tyr
      450      455      460
Tyr Arg Leu Phe Lys Asn Val Pro Cys Cys Phe Gly Cys Leu Arg
      465      470      475      479

```

<210> 884
 <211> 143
 <212>Amino acid
 <213> Homo sapiens

```

      <400> 884
Gly Thr Arg Glu Ala Ala Pro Ser Arg Phe Met Phe Leu Leu Phe Leu
  1      5      10      15
Leu Thr Cys Glu Leu Ala Ala Glu Val Ala Ala Glu Val Glu Lys Ser
      20      25      30
Ser Asp Gly Pro Gly Ala Ala Gln Glu Pro Thr Trp Leu Thr Asp Val
      35      40      45
Pro Ala Ala Met Glu Phe Ile Ala Ala Thr Glu Val Ala Val Ile Gly
      50      55      60
Phe Phe Gln Asp Leu Glu Ile Pro Ala Val Pro Ile Leu His Ser Met
      65      70      75      80
Val Gln Lys Phe Pro Gly Val Ser Phe Gly Ile Ser Thr Asp Ser Glu
      85      90      95
Val Leu Thr His Tyr Asn Ile Thr Gly Asn Thr Ile Cys Leu Phe Arg
      100      105      110
Leu Val Asp Asn Glu Gln Leu Asn Leu Glu Asp Glu Asp Ile Glu Ser
      115      120      125
Ile Asp Ala Thr Lys Leu Ser Arg Phe Ile Glu Ile Asn Ser Leu
      130      135      140      143

```

<210> 885
 <211> 52
 <212>Amino acid
 <213> Homo sapiens

```

      <400> 885
Asp Glu Thr Ser Gly Leu Ile Val Arg Glu Val Ser Ile Glu Ile Ser
  1      5      10      15
Arg Gln Gln Val Glu Glu Leu Phe Gly Pro Glu Asp Tyr Trp Cys Gln
      20      25      30

```

Cys Val Ala Trp Ser Ser Ala Gly Thr Thr Lys Ser Arg Lys Ala Tyr
 35 40 45
 Val Arg Ile Ala
 50 52

<210> 886
 <211> 40
 <212> Amino acid
 <213> Homo sapiens

<400> 886
 Gly Thr Arg Ser Ile His Val Lys Leu Asp Val Gly Lys Leu His Thr
 1 5 10 15
 Gln Pro Lys Leu Ala Ala Gln Leu Arg Met Val Asp Asp Gly Ser Gly
 20 25 30
 Lys Val Glu Gly Leu Pro Gly Ile
 35 40

<210> 887
 <211> 177
 <212> Amino acid
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(177)
 <223> X = any amino acid or stop code

<400> 887
 Xaa Cys Gly Glu Asp Gly Ser Phe Thr Gln Val Gln Cys His Thr Tyr
 1 5 10 15
 Thr Gly Tyr Cys Trp Cys Val Thr Pro Asp Gly Lys Pro Ile Ser Gly
 20 25 30
 Ser Ser Val Gln Asn Lys Thr Pro Val Cys Ser Gly Ser Val Thr Asp
 35 40 45
 Lys Pro Leu Ser Gln Gly Asn Ser Gly Arg Lys Asp Asp Gly Ser Lys
 50 55 60
 Pro Thr Pro Thr Met Glu Thr Gln Pro Val Phe Asp Gly Asp Glu Ile
 65 70 75 80
 Thr Ala Pro Thr Leu Trp Ile Lys His Leu Val Ile Lys Asp Ser Lys
 85 90 95
 Leu Asn Asn Thr Asn Ile Arg Asn Ser Glu Lys Val Tyr Ser Cys Asp
 100 105 110
 Gln Glu Arg Gln Ser Ala Leu Glu Glu Ala Gln Gln Asn Pro Arg Glu
 115 120 125
 Gly Ile Val Ile Pro Glu Cys Ala Pro Gly Gly Leu Tyr Lys Pro Val
 130 135 140
 Gln Cys His Gln Ser Thr Gly Tyr Cys Trp Cys Val Leu Val Asp Thr
 145 150 155 160
 Gly Arg Pro Leu Pro Gly Thr Ser Thr Arg Tyr Val Met Pro Ser Xaa
 165 170 175 176

*

<210> 888
 <211> 48
 <212>Amino acid
 <213> Homo sapiens

<400> 888
 Val Leu Gln Leu Ile Lys Ser Gln Lys Phe Leu Asn Lys Leu Val Ile
 1 5 10 15
 Leu Val Glu Thr Glu Lys Glu Lys Ile Leu Arg Lys Glu Tyr Val Phe
 20 25 30
 Ala Asp Ser Lys Val Ser Asp Ser Lys Leu Leu Lys Trp Ala Val Arg
 35 40 45 48

<210> 889
 <211> 316
 <212>Amino acid
 <213> Homo sapiens

<400> 889
 Arg Arg Leu Ser Leu Leu Asp Leu Gln Leu Gly Pro Leu Gly Arg Asp
 1 5 10 15
 Pro Pro Gln Glu Cys Ser Thr Phe Ser Pro Thr Asp Ser Gly Glu Glu
 20 25 30
 Pro Gly Gln Leu Ser Pro Gly Val Gln Phe Gln Arg Arg Gln Asn Gln
 35 40 45
 Arg Arg Phe Ser Met Glu Asp Val Ser Lys Arg Leu Ser Leu Pro Met
 50 55 60
 Asp Ile Arg Leu Pro Gln Glu Phe Leu Gln Lys Leu Gln Met Glu Ser
 65 70 75 80
 Pro Asp Leu Pro Lys Pro Leu Ser Arg Met Ser Arg Arg Ala Ser Leu
 85 90 95
 Ser Asp Ile Gly Phe Gly Lys Leu Glu Thr Tyr Val Lys Leu Asp Lys
 100 105 110
 Leu Gly Glu Gly Thr Tyr Ala Thr Val Phe Lys Gly Arg Ser Lys Leu
 115 120 125
 Thr Glu Asn Leu Val Ala Leu Lys Glu Ile Arg Leu Glu His Glu Glu
 130 135 140
 Gly Ala Pro Cys Thr Ala Ile Arg Glu Val Ser Leu Leu Lys Asn Leu
 145 150 155 160
 Lys His Ala Asn Ile Val Thr Leu His Asp Leu Ile His Thr Asp Arg
 165 170 175
 Ser Leu Thr Leu Val Phe Glu Tyr Leu Asp Ser Asp Leu Lys Gln Tyr
 180 185 190
 Leu Asp His Cys Gly Asn Leu Met Ser Met His Asn Val Lys Val Arg
 195 200 205
 Pro Arg Gly Gln Gly Pro Pro Ile Leu Ala Ala Thr Cys Pro Glu Ala
 210 215 220
 Gln Cys Gly Asp Pro Leu Ser Pro Pro Gly Ile Arg Leu Leu Arg Trp
 225 230 235 240
 Leu Lys Pro Ser His Val Gly Lys Arg Glu Arg Ala Met Pro Ser Thr
 245 250 255
 Ser Pro Gly Thr Gly Leu Ser Ala Leu Pro Gln Glu Gln Thr His Thr

	260		265		270										
Val	Cys	His	Cys	Leu	Ala	Val	Gly	Ile	Lys	Pro	Thr	Leu	Asn	Ser	Glu
	275						280						285		
His	Gln	Phe	Pro	Ser	Leu	Ser	Asn	Gly	Ser	Val	Ser	Tyr	Leu	Pro	Lys
	290						295						300		
Cys	Arg	Glu	Ala	Ser	Gly	Glu	Ala	Arg	Gly	Tyr	Glu				
305						310				315	316				

<210> 890
 <211> 34
 <212>Amino acid
 <213> Homo sapiens

	<400>	890													
His	Glu	Arg	His	Glu	Pro	Ser	Pro	Thr	Ala	Leu	Ala	Phe	Gly	Asp	His
1				5					10					15	
Pro	Ile	Val	Gln	Pro	Lys	Gln	Leu	Ser	Phe	Lys	Ile	Ile	Gln	Val	Asn
			20					25					30		
Asp	Asn														
34															

<210> 891
 <211> 68
 <212>Amino acid
 <213> Homo sapiens

	<400>	891													
Ala	Arg	Gly	Pro	Ser	Leu	Leu	Ser	Glu	Phe	His	Pro	Gly	Ser	Asp	Arg
1				5					10					15	
Pro	Gln	Glu	Arg	Arg	Thr	Ser	Tyr	Glu	Pro	Ile	His	Pro	Gly	Pro	Ser
			20					25					30		
Pro	Val	Asp	His	Asp	Ser	Leu	Glu	Ser	Lys	Arg	Pro	Arg	Leu	Glu	Gln
		35					40					45			
Ala	Ser	Asp	Ser	His	Tyr	Gln	Gly	His	Ile	Thr	Gly	Glu	Ser	Leu	Pro
	50					55					60				
Gly	Arg	Val	His												
65			68												

<210> 892
 <211> 38
 <212>Amino acid
 <213> Homo sapiens

	<400>	892													
Gly	Thr	Arg	Lys	Glu	Glu	Phe	Ser	Ala	Glu	Glu	Asn	Phe	Leu	Ile	Leu
1				5					10					15	
Thr	Glu	Met	Ala	Thr	Asn	His	Val	Gln	Val	Leu	Val	Glu	Phe	Thr	Lys
			20					25					30		
Lys	Leu	Pro	Gly	Ile	Phe										

35

38

<210> 893
 <211> 195
 <212>Amino acid
 <213> Homo sapiens

<400> 893
 His Thr His Lys Leu Val Ala Pro Arg Pro Gly Leu Pro Pro Thr Ser
 1 5 10 15
 Gln Trp Pro Arg Asp Ala Gly Arg Gln Ala Ser Gly Gly Leu Pro Ser
 20 25 30
 Leu Ser Thr Gly Pro Pro Lys Gly Pro Arg Asp Gly Leu Ala Arg Gly
 35 40 45
 His Pro Ala Glu Trp Leu Ala Gly Ser Pro Gly Asn Asn Ser Pro Thr
 50 55 60
 Gln Gly Ser Leu Pro Pro Gln Leu Asp Leu Tyr Ala Gly Ala Leu Phe
 65 70 75 80
 Val His Ile Cys Leu Gly Trp Asn Phe Tyr Leu Ser Thr Ile Leu Thr
 85 90 95
 Leu Gly Ile Thr Ala Leu Tyr Thr Ile Ala Gly Met Val Pro Ala Ala
 100 105 110
 Gly Arg Ser Thr Gln Gly Thr Cys Lys Gly Val Arg Arg Pro Pro Pro
 115 120 125
 Pro Thr Gly Pro Arg Glu Gln Pro Arg Lys Trp Pro Gln Gln Glu Pro
 130 135 140
 Gln Lys Phe Leu Pro Val Ser Leu Leu Pro Gly Ala Arg Ala Pro Ser
 145 150 155 160
 Ser Asn Leu Ala Ser Thr Gly Arg Gly Pro Gly Cys Cys Asn Leu His
 165 170 175
 Gly Arg Pro Ala Asp Ala His His Gly Gly Gly Gly Cys His Pro Asp
 180 185 190
 Asn Gln Arg
 195

<210> 894
 <211> 87
 <212>Amino acid
 <213> Homo sapiens

<400> 894
 Met Val Asn His Ser Leu Gln Glu Thr Ser Glu Gln Asn Val Ile Leu
 1 5 10 15
 Gln His Thr Leu Gln Gln Gln Gln Met Leu Gln Gln Glu Thr Ile
 20 25 30
 Arg Asn Gly Glu Leu Glu Asp Thr Gln Thr Lys Leu Glu Lys Gln Val
 35 40 45
 Ser Lys Leu Glu Gln Glu Leu Gln Lys Gln Arg Glu Ser Ser Ala Glu
 50 55 60
 Lys Leu Arg Lys Met Glu Lys Cys Glu Ser Ala Ala His Glu Ala
 65 70 75 80
 Asp Leu Lys Arg Gln Lys *
 85 86

<210> 895
 <211> 49
 <212>Amino acid
 <213> Homo sapiens

 <220>
 <221> misc_feature
 <222> (1)...(49)
 <223> X = any amino acid or stop code

<400> 895
 Val Cys Pro Lys Trp Cys Arg Phe Leu Thr Met Leu Gly His Cys Cys
 1 5 10 15
 Tyr Phe Trp His Val Trp Pro Ala Ser Xaa Ala Leu Ser Ala Gly Pro
 20 25 30
 Thr Pro Thr Ser Arg Ser Phe Ser Pro Ser Pro Leu Arg Ser Ile Ser
 35 40 45
 Thr
 49

<210> 896
 <211> 128
 <212>Amino acid
 <213> Homo sapiens

 <220>
 <221> misc_feature
 <222> (1)...(128)
 <223> X = any amino acid or stop code

<400> 896
 Met Arg Gly Pro Pro Val Leu Leu Leu Gln Ala Ala Pro Met Glu Cys
 1 5 10 15
 Pro Val Pro Gln Gly Ile Pro Ala Gly Ser Ser Pro Glu Pro Ala Pro
 20 25 30
 Asp Pro Pro Gly Pro His Phe Leu Arg Gln Glu Arg Ser Phe Glu Cys
 35 40 45
 Arg Met Cys Gly Lys Ala Phe Lys Arg Ser Ser Thr Leu Ser Thr His
 50 55 60
 Leu Leu Ile His Ser Asp Thr Arg Pro Tyr Pro Cys Gln Phe Cys Gly
 65 70 75 80
 Lys Arg Phe His Gln Lys Ser Asp Met Lys Lys His Thr Tyr Ile His
 85 90 95
 Thr Gly Glu Lys Pro His Lys Cys Gln Thr Gln Arg Glu Pro Thr Met
 100 105 110
 Val Leu Ser Pro Ala Asp Lys Thr Asn Val Lys Ala Ala Trp Xaa *
 115 120 125 127

<210> 897
 <211> 57
 <212>Amino acid
 <213> Homo sapiens

<400> 897

```

His Glu Gln Leu Thr Asn Asn Thr Ala Thr Ala Pro Ser Ala Thr Pro
 1          5          10          15
Val Phe Gly Gln Val Ala Ala Ser Thr Ala Pro Ser Leu Phe Gly Gln
          20          25          30
Gln Thr Gly Ile Thr Ala Ser Thr Ala Val Ala Thr Pro Gln Val Ile
          35          40          45
Ser Ser Arg Phe Ile Asn Leu Asp Phe
          50          55          57

```

<210> 898

<211> 163

<212>Amino acid

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(163)

<223> X = any amino acid or stop code

<400> 898

```

Val Ser Val Phe Lys Asn Cys Pro Met Tyr Xaa Ile Cys Ile Phe Leu
 1          5          10          15
Thr Lys Met Phe Cys Val Leu Ile Ile Xaa Asn Lys Phe Xaa Val His
          20          25          30
Lys Lys Pro Leu Gln Glu Val Glu Ile Ala Ala Ile Thr His Gly Ala
          35          40          45
Leu Gln Gly Leu Ala Tyr Leu His Ser His Thr Met Ile His Arg Asp
          50          55          60
Ile Lys Ala Gly Asn Ile Leu Leu Thr Glu Pro Gly Gln Val Lys Leu
          65          70          75          80
Ala Asp Phe Gly Ser Ala Ser Met Ala Ser Pro Ala Asn Ser Phe Val
          85          90          95
Gly Thr Pro Tyr Trp Met Ala Pro Glu Val Ile Leu Ala Met Asp Glu
          100          105          110
Gly Gln Tyr Asp Gly Lys Val Asp Val Trp Ser Leu Gly Ile Thr Cys
          115          120          125
Ile Glu Leu Ala Glu Arg Lys Pro Pro Leu Phe Asn Met Asn Ala Met
          130          135          140
Ser Ala Leu Tyr His Ile Ala Gln Asn Glu Ser Pro Thr Leu Gln Ser
          145          150          155          160
Asn Glu Trp
          163

```

<210> 899

<211> 352

<212>Amino acid

<213> Homo sapiens

<400> 899

```

Arg His Ala Arg Pro Gly Gly Gly Gly His Ser Asn Gln Arg Lys Met
 1      5      10      15
Ser Leu Glu Gln Glu Glu Thr Gln Pro Gly Arg Leu Leu Gly Arg
      20      25      30
Arg Asp Ala Val Pro Ala Phe Ile Glu Pro Asn Val Arg Phe Trp Ile
      35      40      45
Thr Glu Arg Gln Ser Phe Ile Arg Arg Phe Leu Gln Trp Thr Glu Leu
      50      55      60
Leu Asp Pro Thr Asn Val Phe Ile Ser Val Glu Ser Ile Glu Asn Ser
      65      70      75      80
Arg Gln Leu Leu Cys Thr Asn Glu Asp Val Ser Ser Pro Ala Ser Ala
      85      90      95
Asp Gln Arg Ile Gln Glu Ala Trp Lys Arg Ser Leu Ala Thr Val His
      100      105      110
Pro Asp Ser Ser Asn Leu Ile Pro Lys Leu Phe Arg Pro Ala Ala Phe
      115      120      125
Leu Pro Phe Met Ala Pro Thr Val Phe Leu Ser Met Thr Pro Leu Lys
      130      135      140
Gly Ile Lys Ser Val Ile Leu Pro Gln Val Phe Leu Cys Ala Tyr Met
      145      150      155      160
Ala Ala Phe Asn Ser Ile Asn Gly Asn Arg Ser Tyr Thr Cys Lys Pro
      165      170      175
Leu Glu Arg Ser Leu Leu Met Ala Gly Ala Val Ala Ser Ser Thr Phe
      180      185      190
Leu Gly Val Ile Pro Gln Phe Val Gln Met Lys Tyr Gly Leu Thr Gly
      195      200      205
Pro Trp Ile Lys Arg Leu Leu Pro Val Ile Phe Leu Val Gln Ala Ser
      210      215      220
Gly Met Asn Val Tyr Met Ser Arg Ser Leu Glu Ser Ile Lys Gly Ile
      225      230      235      240
Ala Val Met Asp Lys Glu Gly Asn Val Leu Gly His Ser Arg Ile Ala
      245      250      255
Gly Thr Lys Ala Val Arg Glu Thr Leu Ala Ser Arg Ile Val Leu Phe
      260      265      270
Gly Thr Ser Ala Leu Ile Pro Glu Val Phe Thr Tyr Phe Phe Lys Arg
      275      280      285
Thr Gln Tyr Phe Arg Lys Asn Pro Gly Ser Leu Trp Ile Leu Lys Leu
      290      295      300
Ser Cys Thr Val Leu Ala Met Gly Leu Met Val Pro Phe Ser Phe Ser
      305      310      315      320
Ile Phe Pro Gln Ile Gly Gln Ile Gln Tyr Cys Ser Leu Glu Glu Lys
      325      330      335
Ile Gln Ser Pro Thr Glu Glu Thr Glu Ile Phe Tyr His Arg Gly Val
      340      345      350      352

```

```

<210> 900
<211> 186
<212> Amino acid
<213> Homo sapiens

```

```

<400> 900
His Ala Ser Gly Arg Leu Glu Val Phe Tyr Asn Gly Thr Trp Gly Ser
 1      5      10      15
Val Gly Arg Arg Asn Ile Thr Thr Ala Ile Ala Gly Ile Val Cys Arg
      20      25      30
Gln Leu Gly Cys Gly Glu Asn Gly Val Val Ser Leu Ala Pro Leu Ser
      35      40      45

```

```

Lys Thr Gly Ser Gly Phe Met Trp Val Asp Asp Ile Gln Cys Pro Lys
  50          55          60
Thr His Ile Ser Ile Trp Gln Cys Leu Ser Ala Pro Trp Glu Arg Arg
  65          70          75          80
Ile Ser Ser Pro Ala Glu Glu Thr Trp Ile Thr Cys Glu Asp Arg Ile
          85          90          95
Arg Val Arg Gly Gly Asp Thr Glu Cys Ser Gly Arg Val Glu Ile Trp
          100          105          110
His Ala Gly Ser Trp Gly Thr Val Cys Asp Asp Ser Trp Asp Leu Ala
          115          120          125
Glu Ala Glu Val Val Cys Gln Gln Leu Gly Cys Gly Ser Ala Leu Ala
          130          135          140
Ala Leu Arg Asp Ala Ser Phe Gly Gln Gly Thr Gly Thr Ile Trp Leu
          145          150          155          160
Asp Asp Met Arg Cys Lys Gly Asn Glu Ser Phe Leu Trp Asp Cys His
          165          170          175
Ala Lys Pro Trp Gly Gln Ser Asp Cys Gly
          180          185 186

```

<210> 901
 <211> 365
 <212> Amino acid
 <213> Homo sapiens

```

<400> 901
Leu Gly Asp Phe Pro Gln Pro Gln Arg Gln Arg Arg Pro Gly Ala Ser
  1          5          10          15
Asp Leu Pro Pro His Leu Ala Gly Ala Arg Gln Trp Glu Val Arg Phe
          20          25          30
Phe Arg His Leu Pro Ala Arg Thr Leu Pro Pro Ser Leu Arg Met Pro
          35          40          45
Glu Gly Pro Glu Leu His Leu Ala Ser Gln Phe Val Asn Glu Ala Cys
          50          55          60
Arg Ala Leu Val Phe Gly Gly Cys Val Glu Lys Ser Ser Val Ser Arg
          65          70          75          80
Asn Pro Glu Val Pro Phe Glu Ser Ser Ala Tyr Arg Ile Ser Ala Ser
          85          90          95
Ala Arg Gly Lys Glu Leu Arg Leu Ile Leu Ser Pro Leu Pro Gly Ala
          100          105          110
Gln Pro Gln Gln Glu Pro Leu Ala Leu Val Phe Arg Phe Gly Met Ser
          115          120          125
Gly Ser Phe Gln Leu Val Pro Arg Glu Glu Leu Pro Arg His Ala His
          130          135          140
Leu Arg Phe Tyr Thr Ala Pro Pro Gly Pro Arg Leu Ala Leu Cys Phe
          145          150          155          160
Val Asp Ile Arg Arg Phe Gly Arg Trp Asp Leu Gly Gly Lys Trp Gln
          165          170          175
Pro Gly Arg Gly Pro Cys Val Leu Gln Glu Tyr Gln Gln Phe Arg Glu
          180          185          190
Asn Val Leu Arg Asn Leu Ala Asp Lys Ala Phe Asp Arg Pro Ile Cys
          195          200          205
Glu Ala Leu Leu Asp Gln Arg Phe Phe Asn Gly Ile Gly Asn Tyr Leu
          210          215          220
Arg Ala Glu Ile Leu Tyr Arg Leu Lys Ile Pro Pro Phe Glu Lys Ala
          225          230          235          240
Arg Ser Val Leu Glu Ala Leu Gln Gln His Arg Pro Ser Pro Glu Leu
          245          250          255
Thr Leu Ser Gln Lys Ile Arg Thr Lys Leu Gln Asn Pro Asp Leu Leu
          260          265          270

```

Glu Leu Cys His Ser Val Pro Lys Glu Val Val Gln Leu Gly Gly Arg
 275 280 285
 Gly Tyr Gly Ser Glu Ser Gly Glu Glu Asp Phe Ala Ala Phe Arg Ala
 290 295 300
 Trp Leu Arg Cys Tyr Gly Met Pro Gly Met Ser Ser Leu Gln Asp Arg
 305 310 315 320
 His Gly Arg Thr Ile Trp Phe Gln Gly Asp Pro Gly Pro Leu Ala Pro
 325 330 335
 Lys Gly Arg Lys Ser Arg Lys Lys Lys Ser Lys Ala Thr Gln Leu Ser
 340 345 350
 Pro Glu Asp Arg Val Glu Asp Ala Leu Pro Pro Ser Lys
 355 360 365

<210> 902
 <211> 110
 <212> Amino acid
 <213> Homo sapiens

<400> 902
 Leu Thr Trp Ser Ala Cys Tyr Trp Arg Asp Ile Leu Arg Ile Gln Leu
 1 5 10 15
 Trp Ile Ala Ala Asp Ile Leu Leu Arg Met Leu Glu Lys Ala Leu Leu
 20 25 30
 Tyr Ser Glu His Gln Asn Ile Ser Asn Thr Gly Leu Ser Ser Gln Gly
 35 40 45
 Leu Leu Ile Phe Ala Glu Leu Ile Pro Ala Ile Lys Arg Thr Leu Ala
 50 55 60
 Arg Leu Leu Val Ile Ile Ala Ser Leu Asp Tyr Gly Ile Glu Lys Pro
 65 70 75 80
 His Leu Gly Thr Gly Met His Arg Val Ile Gly Leu Met Leu Leu Tyr
 85 90 95
 Leu Ile Phe Ala Asn Ala Glu Ser Val Ile Arg Val Ile Gly
 100 105 110

<210> 903
 <211> 44
 <212> Amino acid
 <213> Homo sapiens

<400> 903
 Phe Phe Phe Glu Met Glu Ser Arg Ser Ala Ala Gln Ala Gly Val Gln
 1 5 10 15
 Trp Cys Asn Leu Gly Ser Leu Gln Ala Leu Pro Pro Arg Phe Thr Pro
 20 25 30
 Phe Ser Cys Leu Ser Leu Pro Ser Ser Trp Asp Tyr
 35 40 44

<210> 904
 <211> 190
 <212> Amino acid
 <213> Homo sapiens

<400> 904
 Tyr Glu Cys Glu Glu Leu Ala Lys Lys Leu Glu Asn Ser Gln Arg Asp
 1 5 10 15
 Gly Ile Ser Arg Asn Lys Leu Ala Leu Ala Glu Leu Tyr Glu Asp Glu
 20 25 30
 Val Lys Cys Lys Ser Ser Lys Ser Asn Arg Pro Lys Ala Thr Val Phe
 35 40 45
 Lys Ser Pro Arg Thr Pro Pro Gln Arg Phe Tyr Ser Ser Glu His Glu
 50 55 60
 Tyr Ser Gly Leu Asn Ile Val Arg Pro Ser Thr Gly Lys Ile Val Asn
 65 70 75 80
 Glu Leu Phe Lys Glu Ala Arg Glu His Gly Ala Val Pro Leu Asn Glu
 85 90 95
 Ala Thr Arg Ala Ser Gly Asp Asp Lys Ser Lys Ser Phe Thr Gly Gly
 100 105 110
 Gly Tyr Arg Leu Gly Ser Ser Phe Cys Lys Arg Ser Glu Tyr Ile Tyr
 115 120 125
 Gly Glu Asn Gln Leu Gln Asp Val Gln Ile Leu Leu Lys Leu Trp Ser
 130 135 140
 Asn Gly Phe Ser Leu Asp Asp Gly Glu Leu Arg Pro Tyr Asn Glu Pro
 145 150 155 160
 Thr Asn Ala Gln Phe Leu Glu Ser Val Lys Arg Gly Val Thr Leu Ile
 165 170 175
 Ala Cys Met Pro Glu Ile Gln Gln Leu Met Leu Glu Ile Phe
 180 185 190

<210> 905
 <211> 414
 <212> Amino acid
 <213> Homo sapiens

<400> 905
 Trp Pro Cys Gly Ala Ala Pro Gly Leu Thr His Ala Ser Glu Arg Met
 1 5 10 15
 Phe Thr Leu Thr Thr Met Ile Gln Ala Leu Ala Pro Val Met Gly Trp
 20 25 30
 Asp Arg Lys Pro Leu Lys Met Phe Ser Ser Glu Glu Met Arg Gly His
 35 40 45
 Leu His His His Lys Cys Leu Thr Lys Ile Leu Lys Val Glu Gly
 50 55 60
 Gln Val Pro Asp Leu Pro Ser Cys Leu Pro Leu Thr Asp Asn Thr Arg
 65 70 75 80
 Met Leu Ala Ser Ile Leu Ile Asn Met Leu Tyr Asp Asp Leu Arg Cys
 85 90 95
 Asp Pro Glu Arg Asp His Phe Arg Lys Ile Cys Glu Glu Tyr Ile Thr
 100 105 110
 Gly Lys Phe Asp Pro Gln Asp Met Asp Lys Asn Leu Asn Ala Ile Gln
 115 120 125
 Thr Val Ser Gly Ile Leu Gln Gly Pro Phe Asp Leu Gly Asn Gln Leu
 130 135 140
 Leu Gly Leu Lys Gly Val Met Glu Met Met Val Ala Leu Cys Gly Ser
 145 150 155 160
 Glu Arg Glu Thr Asp Gln Leu Val Ala Val Glu Ala Leu Ile His Ala
 165 170 175
 Ser Thr Lys Leu Ser Arg Ala Thr Phe Ile Ile Thr Asn Gly Val Ser
 180 185 190

```

Leu Leu Lys Gln Ile Tyr Lys Thr Thr Lys Asn Glu Lys Ile Lys Ile
   195                               200                205
Arg Thr Leu Val Gly Leu Cys Lys Leu Gly Ser Ala Gly Gly Thr Asp
   210                               215                220
Tyr Gly Leu Arg Gln Phe Ala Glu Gly Ser Thr Glu Lys Leu Ala Lys
  225                               230                235                240
Gln Cys Arg Lys Trp Leu Cys Asn Met Ser Ile Asp Thr Arg Thr Arg
   245                               250                255
Arg Trp Ala Val Glu Gly Leu Ala Tyr Leu Thr Leu Asp Ala Asp Val
   260                               265                270
Lys Asp Asp Phe Val Gln Asp Val Pro Ala Leu Gln Ala Met Phe Glu
   275                               280                285
Leu Ala Lys Thr Ser Asp Lys Thr Ile Leu Tyr Ser Val Ala Thr Thr
   290                               295                300
Leu Val Asn Cys Thr Asn Ser Tyr Asp Val Lys Glu Val Ile Pro Glu
  305                               310                315                320
Leu Val Gln Leu Ala Lys Phe Ser Lys Gln His Val Pro Glu Glu His
   325                               330                335
Pro Lys Asp Lys Lys Asp Phe Ile Asp Met Arg Val Lys Arg Leu Leu
   340                               345                350
Lys Ala Gly Val Ile Ser Ala Leu Ala Cys Met Val Lys Ala Asp Ser
   355                               360                365
Ala Ile Leu Thr Asp Gln Thr Lys Glu Leu Leu Ala Arg Val Phe Leu
   370                               375                380
Ala Leu Cys Asp Asn Pro Lys Asp Arg Gly Thr Ile Val Ala Gln Gly
  385                               390                395                400
Gly Gly Lys Ala Leu Ile Pro Leu Ala Leu Glu Gly Thr Asp
   405                               410                414

```

<210> 906
 <211> 296
 <212>Amino acid
 <213> Homo sapiens

```

<400> 906
Val Asp Ser Val Gly Gly Gly Ser Glu Ser Arg Ser Leu Asp Ser Pro
   1                               5                10                15
Thr Ser Ser Pro Gly Ala Gly Thr Arg Gln Leu Val Lys Ala Ser Ser
   20                               25                30
Thr Gly Thr Glu Ser Ser Asp Asp Phe Glu Glu Arg Asp Pro Asp Leu
   35                               40                45
Gly Asp Gly Leu Glu Asn Gly Leu Gly Ser Pro Phe Gly Lys Trp Thr
   50                               55                60
Leu Ser Ser Ala Ala Gln Thr His Gln Leu Arg Arg Leu Arg Gly Pro
   65                               70                75                80
Ala Lys Cys Arg Glu Cys Glu Ala Phe Met Val Ser Gly Thr Glu Cys
   85                               90                95
Glu Glu Cys Phe Leu Thr Cys His Lys Arg Cys Leu Glu Thr Leu Leu
  100                               105                110
Ile Leu Cys Gly His Arg Arg Leu Pro Ala Arg Thr Pro Leu Phe Gly
  115                               120                125
Val Asp Phe Leu Gln Leu Pro Arg Asp Phe Pro Glu Glu Val Pro Phe
  130                               135                140
Val Val Thr Lys Cys Thr Ala Glu Ile Glu His Arg Ala Leu Asp Val
  145                               150                155                160
Gln Gly Ile Tyr Arg Val Ser Gly Ser Arg Val Arg Val Glu Arg Leu
  165                               170                175
Cys Gln Ala Phe Glu Asn Gly Arg Ala Leu Val Glu Leu Ser Gly Asn
  180                               185                190

```

```

Ser Pro His Asp Val Ser Ser Val Leu Lys Arg Phe Leu Gln Glu Leu
      195                200                205
Thr Glu Pro Val Ile Pro Phe His Leu Tyr Asp Ala Phe Ile Ser Leu
      210                215                220
Ala Lys Thr Leu His Ala Asp Pro Gly Asp Asp Pro Gly Thr Pro Ser
      225                230                235                240
Pro Ser Pro Glu Val Ile Arg Ser Leu Lys Thr Leu Leu Val Gln Leu
      245                250                255
Pro Asp Ser Asn Tyr Asn Thr Leu Arg His Leu Val Ala His Leu Phe
      260                265                270
Arg Val Ala Ala Arg Phe Met Glu Asn Lys Met Ser Ala Asn Asn Leu
      275                280                285
Gly Ile Val Phe Gly Pro Thr Leu
      290                295 296

```

```

<210> 907
<211> 131
<212>Amino acid
<213> Homo sapiens

```

```

<400> 907
Gly Leu His Val Ile Ser Leu His Ser Ala Asp Gly Arg His Trp Glu
  1                5                10                15
Asp Pro Leu Ser Glu Leu Asp Ser Glu Arg Val Ser Ala Phe Leu Val
      20                25                30
Thr Glu Thr Leu Val Phe Tyr Leu Phe Cys Leu Leu Ala Asp Glu Thr
      35                40                45
Val Val Pro Pro Asp Val Pro Ser Tyr Leu Ser Ser Gln Gly Thr Leu
      50                55                60
Ser Asp Arg Gln Glu Thr Val Val Arg Thr Glu Gly Gly Pro Gln Ala
      65                70                75                80
Asn Gly His Ile Glu Ser Asn Gly Lys Ala Ser Val Thr Val Lys Gln
      85                90                95
Ser Ser Ala Val Thr Val Ser Leu Gly Ala Gly Gly Gly Leu Gln Val
      100                105                110
Phe Thr Gly Gln Val Pro Gly Ile Arg Trp Gly Lys Leu Gly Glu Ala
      115                120                125
His Ala Ser
      130 131

```

```

<210> 908
<211> 124
<212>Amino acid
<213> Homo sapiens

```

```

<400> 908
Lys Ile Lys His Arg Pro Glu Glu Glu Pro Arg Trp Ala Ala Ala Gly
  1                5                10                15
Ala Gln Ser Ala Gly Pro Gly Ala Ala Glu Val Ala Pro Pro Arg Pro
      20                25                30
Gly Thr Val Ala Pro Gly Ala Asn Gly Met Thr Asp Ser Ala Thr Ala
      35                40                45
Asn Gly Asp Asp Arg Asp Pro Glu Ile Glu Leu Phe Val Lys Ala Gly
      50                55                60

```

```

Ile Asp Gly Glu Ser Ile Gly Asn Cys Pro Phe Ser Gln Arg Leu Phe
 65          70          75          80
Met Ile Leu Trp Leu Lys Gly Val Val Phe Asn Val Thr Thr Val Asp
          85          90          95
Leu Lys Arg Lys Pro Ala Asp Leu Arg Asn Leu Ala Pro Gly Thr His
          100          105          110
Pro Pro Phe Leu Ala Phe Asn Trp Tyr Val Lys Thr
          115          120          124

```

<210> 909
 <211> 111
 <212> Amino acid
 <213> Homo sapiens

```

<400> 909
Leu Gly Phe Ser Asp Gly Gln Glu Ala Arg Pro Glu Glu Ile Gly Trp
 1          5          10          15
Leu Asn Gly Tyr Asn Glu Thr Thr Gly Glu Arg Gly Asp Phe Pro Gly
          20          25          30
Thr Tyr Val Glu Tyr Ile Gly Arg Lys Lys Ile Ser Pro Pro Thr Pro
          35          40          45
Lys Pro Arg Pro Pro Arg Pro Leu Pro Val Ala Pro Gly Ser Ser Lys
          50          55          60
Thr Glu Ala Asp Val Glu Gln Gln Val Leu Tyr Lys Tyr Arg Lys Lys
          65          70          75          80
Pro Ser Ser Ser His Arg Pro Gln Thr Pro His Asn Gly Lys Ser Lys
          85          90          95
Asn Phe Leu His Lys Gln Gly Leu Lys Lys Lys Lys Ala Ser Leu
          100          105          110 111

```

<210> 910
 <211> 298
 <212> Amino acid
 <213> Homo sapiens

```

<400> 910
Arg Thr Arg Gly Val Met Glu Leu Ala Leu Arg Arg Ser Pro Val Pro
 1          5          10          15
Arg Trp Leu Leu Leu Leu Pro Leu Leu Leu Gly Leu Asn Ala Gly Ala
          20          25          30
Val Ile Asp Trp Pro Thr Glu Glu Gly Lys Glu Val Trp Asp Tyr Val
          35          40          45
Thr Val Arg Lys Asp Ala Tyr Met Phe Trp Trp Leu Tyr Tyr Ala Thr
          50          55          60
Asn Ser Cys Lys Asn Phe Ser Glu Leu Pro Leu Val Met Trp Leu Gln
          65          70          75          80
Gly Gly Pro Gly Gly Ser Ser Thr Gly Phe Gly Asn Phe Glu Glu Ile
          85          90          95
Gly Pro Leu Asp Ser Asp Leu Lys Pro Arg Lys Thr Thr Trp Leu Gln
          100          105          110
Ala Ala Ser Leu Leu Phe Val Asp Asn Pro Val Gly Thr Gly Phe Ser
          115          120          125
Tyr Val Asn Gly Ser Gly Ala Tyr Ala Lys Asp Leu Ala Met Val Ala
          130          135          140

```

```

Ser Asp Met Met Gly Leu Leu Lys Thr Phe Phe Ser Cys His Lys Glu
145          150          155          160
Phe Gln Thr Val Pro Phe Tyr Ile Phe Ser Glu Ser Tyr Gly Gly Lys
          165          170          175
Met Ala Ala Gly Ile Gly Leu Glu Leu Tyr Lys Ala Ile Gln Arg Gly
          180          185          190
Thr Ile Lys Cys Asn Phe Ala Gly Val Ala Leu Gly Asp Ser Trp Ile
          195          200          205
Ser Pro Val Asp Ser Val Leu Ser Trp Gly Pro Tyr Leu Tyr Ser Met
          210          215          220
Ser Leu Leu Glu Asp Lys Gly Leu Ala Glu Val Ser Lys Val Ala Glu
225          230          235          240
Gln Val Leu Asn Ala Val Asn Lys Gly Leu Tyr Arg Glu Ala Thr Glu
          245          250          255
Leu Trp Gly Lys Ala Glu Met Ile Ile Glu Gln Val Lys Arg Gly Asn
          260          265          270
Thr Gln Arg Arg Ala Cys Leu Ala Phe Ser Gly Gly Tyr Arg Ala His
          275          280          285
Gly Trp Cys Cys Gln Thr Trp Ser Leu His
          290          295          298

```

```

<210> 911
<211> 213
<212> Amino acid
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(213)
<223> X = any amino acid or stop code

```

```

<400> 911
Pro Gly Trp Ser Arg Ser Pro Asp Leu Val Ile Arg Leu Pro Arg Pro
1          5          10          15
Pro Lys Val Leu Gly Leu Gln Tyr Tyr His Phe Phe Phe Phe Leu Arg
          20          25          30
Trp Ser Leu Asp Ser Val Ala Gln Ala Glu Val Gln Trp His Asp Leu
          35          40          45
Arg Ser Leu Gln Ala Pro Pro Gly Phe Thr Pro Phe Ser Cys Leu
          50          55          60
Ser Leu Pro Gly Ser Trp Asp Tyr Arg Cys Pro Pro Pro Arg Pro Ala
          65          70          75          80
Asn Phe Leu Tyr Phe Xaa Xaa Arg Arg Gly Phe Thr Val Leu Ala Arg
          85          90          95
Met Val Ser Ile Ser Xaa Pro Arg Asp Pro Pro Ala Ser Ala Ser Gln
          100          105          110
Ser Ala Gly Ile Thr Val Leu Ser Leu Phe Phe Phe Phe Glu Met Glu
          115          120          125
Ser Cys Ser Val Ala Gln Ala Gly Val Gln Trp Arg Tyr Leu Gly Ser
          130          135          140
Leu Gln Ala Leu Pro Pro Gly Phe Thr Pro Phe Ser Cys Leu Ser Leu
145          150          155          160
Pro Ser Ser Trp Asp Tyr Arg Arg Pro Pro Pro Arg Pro Ala Asn Phe
          165          170          175
Phe Val Phe Leu Val Glu Thr Gly Val Ser Pro Cys Xaa Pro Gly Trp
          180          185          190
Ser Arg Ser Pro Asp Leu Val Ile Arg Leu Pro Gln Pro Pro Lys Val
          195          200          205
Leu Gly Leu Gln Val

```

210

213

<210> 912
 <211> 583
 <212>Amino acid
 <213> Homo sapiens

<400> 912
 Pro Ser Met Lys Thr Gly Glu Leu Glu Lys Glu Thr Ala Pro Leu Arg
 1 5 10 15
 Lys Asp Ala Asp Ser Ser Ile Ser Val Leu Glu Ile His Ser Gln Lys
 20 25 30
 Ala Gln Ile Glu Glu Pro Asp Pro Pro Glu Met Glu Thr Ser Leu Asp
 35 40 45
 Ser Ser Glu Met Ala Lys Asp Leu Ser Ser Lys Thr Ala Leu Ser Ser
 50 55 60
 Thr Glu Ser Cys Thr Met Lys Gly Glu Glu Lys Ser Pro Lys Thr Lys
 65 70 75 80
 Lys Asp Lys Arg Pro Pro Ile Leu Glu Cys Leu Glu Lys Leu Glu Lys
 85 90 95
 Ser Lys Lys Thr Phe Leu Asp Lys Asp Ala Gln Arg Leu Ser Pro Ile
 100 105 110
 Pro Glu Glu Val Pro Lys Ser Thr Leu Glu Ser Glu Lys Pro Gly Ser
 115 120 125
 Pro Glu Ala Ala Glu Thr Ser Pro Pro Ser Asn Ile Ile Asp His Cys
 130 135 140
 Glu Lys Leu Ala Ser Glu Lys Glu Val Val Glu Cys Gln Ser Thr Ser
 145 150 155 160
 Thr Val Gly Gly Gln Ser Val Lys Lys Val Asp Leu Glu Thr Leu Lys
 165 170 175
 Glu Asp Ser Glu Phe Thr Lys Val Glu Met Asp Asn Leu Asp Asn Ala
 180 185 190
 Gln Thr Ser Gly Ile Glu Glu Pro Ser Glu Thr Lys Gly Ser Met Gln
 195 200 205
 Lys Ser Lys Phe Lys Tyr Lys Leu Val Pro Glu Glu Glu Thr Thr Ala
 210 215 220
 Ser Glu Asn Thr Glu Ile Thr Ser Glu Arg Gln Lys Glu Gly Ile Lys
 225 230 235 240
 Leu Thr Ile Arg Ile Ser Ser Arg Lys Lys Pro Asp Ser Pro Pro
 245 250 255
 Lys Val Leu Glu Pro Glu Asn Lys Gln Glu Lys Thr Glu Lys Glu Glu
 260 265 270
 Glu Lys Thr Asn Val Gly Arg Thr Leu Arg Arg Ser Pro Arg Ile Ser
 275 280 285
 Arg Pro Thr Ala Lys Val Ala Glu Ile Arg Asp Gln Lys Ala Asp Lys
 290 295 300
 Lys Arg Gly Glu Gly Glu Asp Glu Val Glu Glu Ser Thr Ala Leu
 305 310 315 320
 Gln Lys Thr Asp Lys Lys Glu Ile Leu Lys Lys Ser Glu Lys Asp Thr
 325 330 335
 Asn Ser Lys Val Ser Lys Val Lys Pro Lys Gly Lys Val Arg Trp Thr
 340 345 350
 Gly Ser Arg Thr Arg Gly Arg Trp Lys Tyr Ser Ser Asn Asp Glu Ser
 355 360 365
 Glu Gly Ser Gly Ser Glu Lys Ser Ser Ala Ala Ser Glu Glu Glu Glu
 370 375 380
 Glu Lys Glu Ser Glu Glu Ala Ile Leu Ala Asp Asp Asp Glu Pro Cys
 385 390 395 400
 Lys Lys Cys Gly Leu Pro Asn His Pro Glu Leu Ile Leu Leu Cys Asp

```

          405          410          415
Ser Cys Asp Ser Gly Tyr His Thr Ala Leu Pro Phe Ala Pro Pro Leu
          420          425          430
Met Ile His Pro Gln Met Gly Gly Trp Phe Cys Pro Thr Phe Cys Pro
          435          440          445
Thr Leu Asn Leu Leu Leu Leu Glu Lys Leu Glu Asp Gln Phe Gln Asp
          450          455          460
Leu Asp Val Ala Leu Lys Lys Glu Arg Ala Leu Pro Glu Arg Arg Lys
465          470          475          480
Glu Arg Leu Val Tyr Val Gly Ile Ser Ile Glu Asn Ile Ile Pro Pro
          485          490          495
Gln Glu Pro Asp Phe Ser Glu Asp Gln Glu Glu Lys Lys Lys Asp Ser
          500          505          510
Lys Lys Ser Lys Ala Asn Leu Leu Glu Arg Arg Ser Thr Arg Thr Arg
          515          520          525
Lys Cys Ile Ser Tyr Arg Phe Asp Glu Phe Asp Glu Ala Ile Asp Glu
          530          535          540
Ala Ile Glu Asp Asp Ile Lys Glu Ala Asp Gly Gly Gly Val Gly Arg
545          550          555          560
Gly Lys Asp Ile Ser Thr Ile Thr Gly His Arg Gly Lys Asp Ile Ser
          565          570          575
Thr Ile Leu Asp Glu Glu Arg
          580          583

```

<210> 913
 <211> 178
 <212>Amino acid
 <213> Homo sapiens

```

          <400> 913
Lys Arg Arg Gly Ser Phe Lys Met Ala Glu Leu Asp Gln Leu Pro Asp
  1          5          10          15
Glu Ser Ser Ser Ala Lys Ala Leu Val Ser Leu Lys Glu Gly Ser Leu
          20          25          30
Ser Asn Thr Trp Asn Glu Lys Tyr Ser Ser Leu Gln Lys Thr Pro Val
          35          40          45
Trp Lys Gly Arg Asn Thr Ser Ser Ala Val Glu Met Pro Phe Arg Asn
          50          55          60
Ser Lys Arg Ser Arg Leu Phe Ser Asp Glu Asp Asp Arg Gln Ile Asn
65          70          75          80
Thr Arg Ser Pro Lys Arg Asn Gln Arg Val Ala Met Val Pro Gln Lys
          85          90          95
Phe Thr Ala Thr Met Ser Thr Pro Asp Lys Lys Ala Ser Gln Lys Ile
          100          105          110
Gly Phe Arg Leu Arg Asn Leu Leu Lys Leu Pro Lys Ala His Lys Trp
          115          120          125
Cys Ile Tyr Glu Trp Phe Tyr Ser Asn Ile Asp Lys Pro Leu Phe Glu
          130          135          140
Gly Asp Asn Asp Phe Cys Val Cys Leu Lys Glu Ser Phe Pro Asn Leu
145          150          155          160
Lys Thr Arg Lys Leu Thr Arg Val Glu Trp Gly Lys Ile Arg Arg Leu
          165          170          175
Met Gly
178

```

<210> 914
 <211> 158
 <212>Amino acid

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(158)

<223> X = any amino acid or stop code

<400> 914

```

Met Pro Glu Tyr Leu Arg Lys Arg Phe Gly Gly Ile Arg Ile Pro Ile
 1           5           10           15
Ile Leu Ala Val Leu Tyr Leu Phe Ile Tyr Ile Phe Thr Lys Ile Ser
      20           25           30
Val Asp Met Tyr Ala Gly Ala Ile Phe Ile Gln Gln Ser Leu His Leu
      35           40           45
Asp Leu Tyr Leu Ala Ile Val Gly Leu Leu Ala Ile Thr Ala Val Tyr
      50           55           60
Thr Val Ala Gly Gly Leu Ala Ala Val Ile Tyr Thr Asp Ala Leu Gln
      65           70           75           80
Thr Leu Ile Met Leu Ile Gly Ala Leu Thr Leu Met Gly Tyr Ser Phe
      85           90           95
Ala Ala Val Gly Gly Met Glu Gly Leu Lys Glu Lys Tyr Phe Leu Ala
      100          105          110
Leu Ala Ser Asn Arg Ser Glu Asn Ser Ser Cys Gly Leu Pro Arg Glu
      115          120          125
Asp Ala Phe His Ile Phe Arg Asp Pro Leu Thr Ser Asp Leu Pro Trp
      130          135          140
Pro Gly Val Leu Phe Gly Met Ser Ile Pro Ser Leu Xaa *
145          150          155          157

```

<210> 915

<211> 108

<212>Amino acid

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(108)

<223> X = any amino acid or stop code

<400> 915

```

Xaa Ser Ala Ser Ala Thr Ser Leu Thr Leu Ser His Cys Val Asp Val
 1           5           10           15
Val Lys Gly Leu Leu Asp Phe Lys Lys Arg Arg Gly His Ser Ile Gly
      20           25           30
Gly Ala Pro Glu Gln Arg Tyr Gln Ile Ile Pro Val Met Cys Cys Ser
      35           40           45
Leu Leu Ala Thr Gly Gly Ala Asp Arg Leu Ile His Leu Trp Asn Val
      50           55           60
Val Gly Ser Arg Leu Glu Ala Asn Gln Thr Leu Glu Gly Ala Gly Gly
      65           70           75           80
Ser Ile Thr Ser Val Asp Phe Asp Pro Ser Gly Tyr Gln Val Leu Ala
      85           90           95
Ala Thr Tyr Asn Gln Val Ala Gln Phe Trp Lys *
      100          105          107

```

<210> 916
 <211> 45
 <212>Amino acid
 <213> Homo sapiens

<400> 916
 Gln Lys Arg Phe Pro Ser Asn Cys Gly Arg Asp Gly Lys Leu Phe Leu
 1 5 10 15
 Trp Gly Gln Ala Leu His Ile Ile Ala Lys Leu Leu Gly Lys Trp Arg
 20 25 30
 Arg Leu Gly Met Val Phe Phe Ser Leu Leu Leu Ser Tyr
 35 40 45

<210> 917
 <211> 180
 <212>Amino acid
 <213> Homo sapiens

<400> 917
 Val His Val Cys Ser Ser Lys Met Gly Ala Leu Ser Thr Glu Arg Leu
 1 5 10 15
 Gln Tyr Tyr Thr Gln Glu Leu Gly Val Arg Glu Arg Ser Gly His Ser
 20 25 30
 Val Ser Leu Ile Asp Leu Trp Gly Leu Leu Val Glu Tyr Leu Leu Tyr
 35 40 45
 Gln Glu Glu Asn Pro Ala Lys Leu Ser Asp Gln Gln Glu Ala Val Arg
 50 55 60
 Gln Gly Gln Asn Pro Tyr Pro Ile Tyr Thr Ser Val Asn Val Arg Thr
 65 70 75 80
 Asn Leu Ser Gly Glu Asp Phe Ala Glu Trp Cys Glu Phe Thr Pro Tyr
 85 90 95
 Glu Val Gly Phe Pro Lys Tyr Gly Ala Tyr Val Pro Thr Glu Leu Phe
 100 105 110
 Gly Ser Glu Leu Phe Met Gly Arg Leu Leu Gln Leu Gln Pro Glu Pro
 115 120 125
 Arg Ile Cys Tyr Leu Gln Gly Met Trp Gly Ser Ala Phe Ala Thr Ser
 130 135 140
 Leu Asp Glu Ile Phe Leu Lys Thr Ala Gly Ser Gly Leu Ser Phe Leu
 145 150 155 160
 Glu Trp Tyr Arg Gly Ser Val Asn Ile Thr Asp Asp Cys Gln Lys Pro
 165 170 175
 Gln Leu His Asn
 180

<210> 918
 <211> 281
 <212>Amino acid
 <213> Homo sapiens

<400> 918

Glu Phe Leu Gly Arg Pro Thr Arg Pro Ala Lys Asp Glu Gly Asn Asp
 1 5 10 15
 Glu Gly Lys Asp Glu Gly Lys Asp Glu Gly Lys Asp Glu Gly Lys Asp
 20 25 30
 Glu Gly Lys Asp Glu Gly Lys Asp Glu Arg Lys Asp Glu Gly Lys Asp
 35 40 45
 Glu Gly Lys Asp Glu Arg Lys Asp Glu Gly Lys Asp Glu Gly Lys Asp
 50 55 60
 Glu Gly Lys Asp Glu Gly Lys Asp Glu Gly Lys Asp Glu Gly Lys Asp
 65 70 75 80
 Glu Gly Lys Asp Glu Gly Asn Asp Glu Gly Lys Asp Glu Gly Lys Asp
 85 90 95
 Glu Gly Lys Asp Glu Gly Lys Asp Glu Gly Lys Asp Glu Gly Lys Asp
 100 105 110
 Glu Arg Lys Asp Glu Gly Lys Asp Glu Gly Lys Asp Glu Arg Lys Asp
 115 120 125
 Glu Gly Lys Asp Glu Gly Lys Asp Glu Gly Lys Asp Glu Gly Lys Asp
 130 135 140
 Glu Gly Lys Asp Glu Gly Lys Asp Glu Gly Lys Asp Glu Gly Asn Asp
 145 150 155 160
 Glu Gly Lys Asp Glu Gly Lys Asp Glu Gly Lys Asp Glu Gly Lys Asp
 165 170 175
 Glu Gly Lys Asp Glu Gly Lys Asp Glu Gly Asn Asp Glu Gly Asn Asp
 180 185 190
 Glu Gly Asn Asp Glu Gly Lys Asp Glu Gly Lys Asp Glu Arg Asn Asp
 195 200 205
 Glu Gly Lys Asp Glu Gly Lys Asp Glu Gly Lys Asp Glu Gly Lys Asp
 210 215 220
 Glu Arg Asn Asp Glu Gly Lys Asp Glu Arg Lys Asp Glu Gly Lys Asp
 225 230 235 240
 Glu Gly Lys Asp Glu Gly Lys Asp Glu Gly Lys Asp Glu Gly Lys Asp
 245 250 255
 Glu Gly Asn Asp Glu Gly Lys Asp Glu Arg Lys Asp Glu Gly Lys Asp
 260 265 270
 Glu Gly Lys Asp Glu Gly Lys Asp Lys
 275 280 281

<210> 919

<211> 147

<212> Amino acid

<213> Homo sapiens

<400> 919

Pro Ser Leu Arg Pro Ala Trp His Glu Gly Glu Asp Phe Ser Tyr Gly
 1 5 10 15
 Leu Gln Pro Tyr Cys Gly Tyr Ser Phe Gln Val Val Gly Glu Met Ile
 20 25 30
 Arg Asn Arg Glu Val Leu Pro Cys Pro Asp Asp Cys Pro Ala Trp Ala
 35 40 45
 Tyr Ala Leu Met Ile Glu Gly Trp Asn Glu Phe Pro Ser Arg Arg Ala
 50 55 60
 Arg Phe Lys Asp Ile His Ser Arg Leu Arg Ala Trp Gly Asn Leu Ser
 65 70 75 80
 Asn Tyr Asn Ser Ser Glu Gln Thr Ser Gly Gly Arg Asn Thr Thr Gln
 85 90 95
 Thr Ser Ser Leu Ser Thr Ser Pro Leu Cys Asn Val Ser Asn Ala Pro
 100 105 110
 Tyr Val Gly Pro Lys Gln Lys Val Pro Pro Phe Pro Gln Thr Gln Val

```

      115      120      125
Ile Pro Met Lys Gly Gln Ile Arg Pro Met Val Pro Pro Pro Gln Leu
      130      135      140
Tyr Val Pro
145      147

```

```

<210> 920
<211> 150
<212>Amino acid
<213> Homo sapiens

```

```

      <400> 920
Arg Asn Ser Gly Arg His Pro Arg Val Arg Trp Ile Leu Glu Glu Arg
  1          5          10          15
Lys Arg Val Met Gln Glu Ala Cys Ala Lys Tyr Arg Ala Ser Ser Ser
      20          25          30
Arg Arg Ala Val Thr Pro Arg His Val Ser Arg Ile Phe Val Glu Asp
      35          40          45
Arg His Arg Val Leu Tyr Cys Glu Val Pro Lys Ala Gly Cys Ser Asn
      50          55          60
Trp Lys Arg Val Leu Met Val Leu Ala Gly Leu Ala Ser Ser Thr Ala
      65          70          75          80
Asp Ile Gln His Asn Thr Val His Tyr Gly Ser Ala Leu Lys Arg Leu
      85          90          95
Asp Thr Phe Asp Arg Gln Gly Ile Leu His Arg Leu Ser Thr Tyr Thr
      100          105          110
Lys Met Leu Phe Val Arg Glu Pro Phe Glu Arg Leu Val Ser Ala Phe
      115          120          125
Arg Asp Lys Phe Glu His Pro Asn Ser Tyr Tyr His Pro Val Phe Cys
      130          135          140
Met Ala Ile Leu Ala Arg
145          150

```

```

<210> 921
<211> 125
<212>Amino acid
<213> Homo sapiens

```

```

      <400> 921
Ile Met Tyr Ser Ile Ser Pro Ala Asn Ser Glu Glu Gly Gln Glu Leu
  1          5          10          15
Tyr Val Cys Thr Val Lys Asp Asp Val Asn Leu Asp Thr Val Leu Leu
      20          25          30
Leu Pro Phe Leu Lys Glu Ile Ala Val Ser Gln Leu Asp Gln Leu Ser
      35          40          45
Pro Glu Glu Gln Leu Leu Val Lys Cys Ala Ala Ile Ile Gly His Ser
      50          55          60
Phe His Ile Asp Leu Leu Gln His Leu Leu Pro Gly Trp Asp Lys Asn
      65          70          75          80
Lys Leu Leu Gln Val Leu Arg Ala Leu Val Asp Ile His Val Leu Cys
      85          90          95
Trp Ser Asp Lys Ser Gln Glu Leu Pro Ala Glu Pro Ile Leu Met Pro
      100          105          110
Ser Ser Ile Asp Ile Ile Asp Gly Thr Lys Glu Lys Lys

```

115

120

125

<210> 922
 <211> 111
 <212>Amino acid
 <213> Homo sapiens

<400> 922
 Gly Pro His Val Val Leu Val Leu Arg Arg Cys Phe Leu Leu Ser Tyr
 1 5 10 15
 Phe Lys Gly Val Glu Lys Ala Lys Ala Met Pro Ser Pro Arg Ile Leu
 20 25 30
 Lys Thr His Leu Ser Thr Gln Leu Leu Pro Pro Ser Phe Trp Glu Asn
 35 40 45
 Asn Cys Lys Val Arg Tyr Gln Gln Leu Pro Val Thr Glu Gly Lys Val
 50 55 60
 Ser Gln Pro Lys Arg Val Leu Gln Thr Pro Thr Gln Ser Ile Arg Asp
 65 70 75 80
 His Leu Cys Leu Ser Thr Val Ser Asp Ala Tyr Gln Gln Arg Glu Asn
 85 90 95
 Ile Lys Phe Tyr Ile Gln Gln Asp Ile His Leu Asn Ser Phe Lys
 100 105 110 111

<210> 923
 <211> 69
 <212>Amino acid
 <213> Homo sapiens

<400> 923
 Phe Tyr Tyr Ile Cys Arg Leu Ser Lys Glu Asp Lys Ala Phe Leu Trp
 1 5 10 15
 Glu Lys Arg Tyr Tyr Cys Phe Lys His Pro Asn Cys Leu Pro Lys Ile
 20 25 30
 Leu Ala Ser Ala Pro Asn Trp Lys Trp Val Asn Leu Ala Lys Thr Tyr
 35 40 45
 Ser Leu Leu His Gln Trp Pro Ala Leu Tyr Pro Leu Ile Ala Leu Glu
 50 55 60
 Leu Leu Asp Ser Lys
 65 69

<210> 924
 <211> 120
 <212>Amino acid
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(120)
 <223> X = any amino acid or stop code

```

<400> 924
Lys Met Met Ile Xaa Gly Leu Phe Glu Ile Gln Gln Cys Pro Ile Gly
 1          5          10          15
Lys His Cys Asn Phe Leu Gln Val Leu Arg Asn Pro Asn Arg Asp Leu
          20          25          30
Trp Leu Val Ser Ser Phe Gly Lys Ser Ser Lys Gly Arg Glu Arg Met
          35          40          45
Gly His His Asp Glu Tyr Tyr Arg Leu Arg Gly Arg His Asn Pro Ser
          50          55          60
Pro Asp His Ser Tyr Lys Arg Asn Gly Glu Ser Glu Arg Lys Arg Lys
          65          70          75          80
Lys Ser His Xaa His Met Ser Lys Ser Gln Glu Arg His Asn Ser Pro
          85          90          95
Ser Arg Gly Arg Asn Ser Asp Arg Ser Gly Gly Arg Cys Ser Arg Ser
          100          105          110
Asp Asn Gly Arg Ser Arg Tyr Arg
          115          120

```

```

<210> 925
<211> 108
<212>Amino acid
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(108)
<223> X = any amino acid or stop code

```

```

<400> 925
Pro Leu Ser Leu Phe Ala Arg Val Ala Gly Ser Arg Val Glu Met Pro
 1          5          10          15
Glu Pro Pro Gly Leu Gly Asp Glu Gly Arg Pro Leu Leu His Pro Gly
          20          25          30
Arg Arg Glu Ala Val Gly Ser Trp Val Ser Ala Phe Ala Gly Asp Ser
          35          40          45
Thr Pro Cys Gly Pro Gly Asp Leu Ser Val Pro Arg Arg Glu Pro Phe
          50          55          60
Arg Leu Thr Ala Leu Xaa Pro His Arg Ser Pro Val Val Arg Thr Ser
          65          70          75          80
Leu Ile Gly Leu Leu Leu Gly Phe Ser Val Lys Glu Glu Leu Arg Gly
          85          90          95
Val Gly Trp Ala Ala Arg Thr Pro Leu Gly Ile Arg
          100          105          108

```

```

<210> 926
<211> 305
<212>Amino acid
<213> Homo sapiens

```

```

<400> 926
Phe Asp Lys Arg Gln His Glu Ala Arg Ile Gln Gln Met Glu Asn Glu
 1          5          10          15
Ile His Tyr Leu Gln Glu Asn Leu Lys Ser Met Glu Glu Ile Gln Gly

```

```

      20      25      30
Leu Thr Asp Leu Gln Leu Gln Glu Ala Asp Glu Glu Lys Glu Arg Ile
      35      40      45
Leu Ala Gln Leu Arg Glu Leu Glu Lys Lys Lys Lys Leu Glu Asp Ala
      50      55      60
Lys Ser Gln Glu Gln Val Phe Gly Leu Asp Lys Glu Leu Lys Lys Leu
      65      70      75      80
Lys Lys Ala Val Ala Thr Ser Asp Lys Leu Ala Thr Ala Glu Leu Thr
      85      90      95
Ile Ala Lys Asp Gln Leu Lys Ser Leu His Gly Thr Val Met Lys Ile
      100      105      110
Asn Gln Glu Arg Ala Glu Glu Leu Gln Glu Ala Glu Arg Phe Ser Arg
      115      120      125
Lys Ala Ala Gln Ala Ala Arg Asp Leu Thr Arg Ala Glu Ala Glu Ile
      130      135      140
Glu Leu Leu Gln Asn Leu Leu Arg Gln Lys Gly Glu Gln Phe Arg Leu
      145      150      155      160
Glu Met Glu Lys Thr Gly Val Gly Thr Gly Ala Asn Ser Gln Val Leu
      165      170      175
Glu Ile Glu Lys Leu Asn Glu Thr Met Glu Arg Gln Arg Thr Glu Ile
      180      185      190
Ala Arg Leu Gln Asn Val Leu Tyr Leu Thr Gly Ser Asp Asn Lys Gly
      195      200      205
Gly Phe Glu Asn Val Leu Glu Glu Ile Ala Glu Leu Arg Arg Glu Gly
      210      215      220
Ser Tyr Gln Asn Asp Tyr Ile Ser Ser Met Ala Asp Pro Phe Lys Arg
      225      230      235      240
Arg Gly Tyr Trp Tyr Phe Met Pro Pro Pro Pro Ser Ser Lys Val Ser
      245      250      255
Ser His Ser Ser Gln Ala Thr Lys Asp Ser Gly Val Gly Leu Lys Tyr
      260      265      270
Ser Ala Ser Thr Pro Val Arg Lys Pro Arg Pro Gly Gln Gln Asp Gly
      275      280      285
Lys Glu Gly Ser Gln Pro Pro Pro Ala Ser Gly Tyr Trp Val Tyr Ser
      290      295      300
Pro
305

```

```

<210> 927
<211> 303
<212>Amino acid
<213> Homo sapiens

```

```

<400> 927
Ser Asp Ala Ser Ser Phe Lys Thr Arg Val Ile Val Val Pro Arg Pro
  1      5      10      15
Arg Val Phe Pro Leu Gly Ser Ala Ile Thr Glu Asn Ser Leu Glu Ser
      20      25      30
Asp Ser Gln Ile Gly Gln Phe Gly Val Gly Phe Tyr Ser Ala Phe Leu
      35      40      45
Val Ala Asp Lys Val Ile Val Thr Ser Lys His Asn Asn Asp Thr Gln
      50      55      60
His Ile Trp Glu Ser Asp Ser Asn Glu Phe Ser Val Ile Ala Asp Pro
      65      70      75      80
Arg Gly Asn Thr Leu Gly Arg Gly Thr Thr Ile Thr Leu Val Leu Lys
      85      90      95
Glu Glu Ala Ser Asp Tyr Leu Glu Leu Asp Thr Ile Lys Asn Leu Val
      100      105      110
Lys Lys Tyr Ser Gln Phe Ile Asn Phe Pro Ile Tyr Val Trp Ser Ser

```

115	120	125
Lys Thr Glu Thr Val Glu Glu Pro Met Glu Glu Glu Glu Ala Ala Lys		
130	135	140
Glu Glu Lys Glu Glu Ser Asp Asp Glu Ala Ala Val Glu Glu Glu Glu		
145	150	155
Glu Glu Lys Lys Pro Lys Thr Lys Lys Val Glu Lys Thr Val Trp Asp		160
165	170	175
Trp Glu Leu Met Asn Asp Ile Lys Pro Ile Trp Gln Arg Pro Ser Lys		
180	185	190
Glu Val Glu Glu Asp Glu Tyr Lys Ala Phe Tyr Lys Ser Phe Ser Lys		
195	200	205
Glu Ser Asp Asp Pro Met Ala Tyr Ile His Phe Thr Ala Glu Gly Glu		
210	215	220
Val Thr Phe Lys Ser Ile Leu Phe Val Pro Thr Ser Ala Pro Arg Gly		
225	230	235
Leu Phe Asp Glu Tyr Gly Ser Lys Lys Ser Asp Tyr Ile Lys Leu Tyr		
245	250	255
Val Arg Arg Val Phe Ile Thr Asp Asp Phe His Asp Met Met Pro Lys		
260	265	270
Tyr Leu Asn Phe Val Lys Gly Val Val Asp Ser Asp Asp Leu Pro Leu		
275	280	285
Asn Val Ser Arg Glu Thr Leu Gln Gln His Lys Leu Leu Lys Val		
290	295	300
		303

<210> 928
 <211> 147
 <212> Amino acid
 <213> Homo sapiens

<400> 928

Cys Gly Ser Trp Met Arg Arg Ala Leu Ile Pro Pro Cys Arg Gly Gly	
1 5 10 15	
Pro Ser Ala Ser Asp Arg Cys Cys Ser Cys Ser Pro Ser Gly Phe Ser	
20 25 30	
Ala Gly Arg Gly Arg Cys Pro Val Gln Gly Cys Leu Arg Pro His Arg	
35 40 45	
Val Gln Leu Leu Arg Arg Trp Gly Pro Gly Ser Pro Ala Gly Gln Arg	
50 55 60	
Leu Ser Lys Gly Phe Gln Leu Leu Arg Trp Trp Gly Pro Gly Ser Pro	
65 70 75 80	
Ala Pro Glu Pro Arg Lys Gly Pro Phe Pro Pro Pro Asp Pro Pro Trp	
85 90 95	
Pro Val Thr Ala Val Thr Val Met Ala Gly Ser Val Pro Ser Ala Gln	
100 105 110	
Ser Val Asp Ala Leu Glu Ser Pro Gly Pro Leu Ala Leu Glu Gly Pro	
115 120 125	
Ser Ser Pro Arg Asn Leu Leu Trp Arg Glu Met Ser Ile Phe Leu Pro	
130 135 140	
Gly Ile Phe	
145 147	

<210> 929
 <211> 183
 <212> Amino acid
 <213> Homo sapiens

<400> 929
 Pro Gly Pro Thr Pro Pro Pro Arg His Gly Ser Pro Pro His Arg Leu
 1 5 10 15
 Ile Arg Val Glu Thr Pro Gly Pro Pro Ala Pro Pro Ala Asp Glu Arg
 20 25 30
 Ile Ser Gly Pro Pro Ala Ser Ser Asp Arg Leu Ala Ile Leu Glu Asp
 35 40 45
 Tyr Ala Asp Pro Phe Asp Val Gln Glu Thr Gly Glu Gly Ser Ala Gly
 50 55 60
 Ala Ser Gly Ala Pro Glu Lys Val Pro Glu Asn Asp Gly Tyr Met Glu
 65 70 75 80
 Pro Tyr Glu Ala Gln Lys Met Met Ala Glu Ile Arg Gly Ser Lys Glu
 85 90 95
 Thr Ala Thr Gln Pro Leu Pro Leu Tyr Asp Thr Pro Tyr Glu Pro Glu
 100 105 110
 Glu Asp Gly Ala Thr Pro Glu Gly Glu Gly Ala Pro Trp Pro Arg Glu
 115 120 125
 Ser Arg Leu Pro Glu Asp Asp Glu Arg Pro Pro Glu Glu Tyr Asp Gln
 130 135 140
 Pro Trp Glu Trp Lys Lys Glu Arg Ile Ser Lys Ala Phe Ala Val Asp
 145 150 155 160
 Ile Lys Val Ile Lys Asp Leu Pro Trp Pro Pro Val Gly Gln Leu
 165 170 175
 Asp Ser Ser Pro Ser Leu Pro
 180 183

<210> 930
 <211> 187
 <212> Amino acid
 <213> Homo sapiens

<400> 930
 Gln Phe Phe Ser Leu Phe Leu Arg Tyr Gln Ile His Thr Gly Leu Gln
 1 5 10 15
 His Ser Ile Ile Arg Pro Thr Gln Pro Asn Cys Leu Pro Leu Asp Asn
 20 25 30
 Ala Thr Leu Pro Gln Lys Leu Lys Glu Val Gly Tyr Ser Thr His Met
 35 40 45
 Val Gly Lys Trp His Leu Gly Phe Tyr Arg Lys Glu Cys Met Pro Thr
 50 55 60
 Arg Arg Gly Phe Asp Thr Phe Phe Gly Ser Leu Leu Gly Ser Gly Asp
 65 70 75 80
 Tyr Tyr Thr His Tyr Lys Cys Asp Ser Pro Gly Met Cys Gly Tyr Asp
 85 90 95
 Leu Tyr Glu Asn Asp Asn Ala Ala Trp Asp Tyr Asp Asn Gly Ile Tyr
 100 105 110
 Ser Thr Gln Met Tyr Thr Gln Arg Val Gln Gln Ile Leu Ala Ser His
 115 120 125
 Asn Pro Thr Lys Pro Ile Phe Leu Tyr Ile Ala Tyr Gln Ala Val His
 130 135 140
 Ser Pro Leu Gln Ala Pro Gly Arg Tyr Phe Glu His Tyr Arg Ser Ile
 145 150 155 160
 Ile Asn Ile Asn Arg Arg Tyr Ala Ala Met Leu Ser Cys Leu Asp
 165 170 175
 Glu Ala Ile Asn Asn Val Thr Leu Ala Leu Lys
 180 185 187

<210> 931
 <211> 192
 <212>Amino acid
 <213> Homo sapiens

<400> 931
 Arg Val Arg Lys Gly Arg Gly Gly Glu Arg Leu Gln Ser Pro Leu Arg
 1 5 10 15
 Val Pro Gln Lys Pro Glu Arg Pro Pro Leu Pro Pro Lys Pro Gln Phe
 20 25 30
 Leu Asn Ser Gly Ala Tyr Pro Gln Lys Pro Leu Arg Asn Gln Gly Val
 35 40 45
 Val Arg Thr Leu Ser Ser Ser Ala Gln Glu Asp Ile Ile Arg Trp Phe
 50 55 60
 Lys Glu Glu Gln Leu Pro Leu Arg Ala Gly Tyr Gln Lys Thr Ser Asp
 65 70 75 80
 Thr Ile Ala Pro Trp Phe His Gly Ile Leu Thr Leu Lys Lys Ala Asn
 85 90 95
 Glu Leu Leu Leu Ser Thr Gly Met Pro Gly Ser Phe Leu Ile Arg Val
 100 105 110
 Ser Glu Arg Ile Lys Gly Tyr Ala Leu Ser Tyr Leu Ser Glu Asp Gly
 115 120 125
 Cys Lys His Phe Leu Ile Asp Ala Ser Ala Asp Ala Tyr Ser Phe Leu
 130 135 140
 Gly Val Asp Gln Leu Gln His Ala Thr Leu Ala Asp Leu Val Glu Tyr
 145 150 155 160
 His Lys Glu Glu Pro Ile Thr Ser Leu Gly Lys Glu Leu Leu Leu Tyr
 165 170 175
 Pro Cys Gly Gln Gln Asp Gln Leu Pro Asp Tyr Leu Glu Leu Phe Glu
 180 185 190 192

<210> 932
 <211> 545
 <212>Amino acid
 <213> Homo sapiens

<400> 932
 Gly Ser Leu Glu Lys Ala Leu Phe Gln Leu Leu Lys Val Trp Gly Gln
 1 5 10 15
 Trp Ala Glu Gln Thr Arg Arg Leu Gln Arg Leu Asp Val Ser Leu Ser
 20 25 30
 Val Ala Arg Val Arg Ser Ala Gly Pro Ser Cys Gln Asn Lys Gly Asp
 35 40 45
 Leu Val Met Glu Ala Leu Leu Glu Gly Ile Gln Asn Arg Gly His Gly
 50 55 60
 Gly Gly Phe Leu Thr Ser Cys Glu Ala Glu Leu Gln Glu Leu Met Lys
 65 70 75 80
 Gln Ile Asp Ile Met Val Ala His Lys Lys Ser Glu Trp Glu Gly Arg
 85 90 95
 Thr His Ala Leu Glu Thr Cys Leu Lys Ile Arg Glu Gln Glu Leu Lys
 100 105 110
 Ser Leu Arg Ser Gln Leu Asp Val Thr His Lys Glu Val Gly Met Leu

115	120	125
His Gln Gln Val Glu Glu	His Glu Lys Ile Lys Gln Glu Met Thr Met	
130	135	140
Glu Tyr Lys Gln Glu Leu	Lys Lys Leu His Glu Glu Leu Cys Ile Leu	
145	150	155
Lys Arg Ser Tyr Glu Lys	Leu Gln Lys Lys Gln Met Arg Glu Phe Arg	160
165	170	175
Gly Asn Thr Lys Asn His Arg	Glu Asp Arg Ser Glu Ile Glu Arg Leu	
180	185	190
Thr Ala Lys Ile Glu Glu Phe	Arg Gln Lys Ser Leu Asp Trp Glu Lys	
195	200	205
Gln Arg Leu Ile Tyr Gln Gln	Gln Val Ser Ser Leu Glu Ala Gln Arg	
210	215	220
Lys Ala Leu Ala Glu Gln Ser	Glu Ile Ile Gln Ala Gln Leu Val Asn	
225	230	235
Arg Lys Gln Lys Leu Glu Ser	Val Glu Leu Ser Ser Gln Ser Glu Ile	
245	250	255
Gln His Leu Ser Ser Lys Leu	Glu Arg Ala Asn Asp Thr Ile Cys Ala	
260	265	270
Asn Glu Leu Glu Ile Glu Arg	Leu Thr Met Arg Val Asn Asp Leu Val	
275	280	285
Gly Thr Ser Met Thr Val Leu	Gln Glu Gln Gln Lys Glu Glu Lys	
290	295	300
Leu Arg Glu Ser Glu Lys Leu	Leu Glu Ala Leu Gln Glu Glu Lys Arg	
305	310	315
Glu Leu Lys Ala Ala Leu Gln	Ser Gln Glu Asn Leu Ile His Glu Ala	
325	330	335
Arg Ile Gln Lys Glu Lys Leu	Gln Glu Lys Val Lys Ala Thr Asn Thr	
340	345	350
Gln His Ala Val Glu Ala Ile	Ser Leu Glu Ser Val Ser Ala Thr Cys	
355	360	365
Lys Gln Leu Ser Gln Glu Leu	Met Glu Lys Tyr Glu Glu Leu Lys Arg	
370	375	380
Met Glu Ala His Asn Asn Glu	Tyr Lys Ala Glu Ile Lys Lys Leu Lys	
385	390	395
Glu Gln Ile Leu Gln Gly Glu	Gln Ser Tyr Ser Ser Ala Leu Glu Gly	
405	410	415
Met Lys Met Glu Ile Ser His	Leu Thr Gln Glu Leu His Gln Arg Asp	
420	425	430
Ile Thr Ile Ala Ser Thr Lys	Gly Ser Ser Ser Asp Met Glu Lys Arg	
435	440	445
Leu Arg Ala Glu Met Gln Lys	Ala Glu Asp Lys Ala Val Glu His Lys	
450	455	460
Glu Ile Leu Asp Gln Leu Glu	Ser Leu Lys Leu Glu Asn Arg His Leu	
465	470	475
Ser Glu Met Val Met Lys Leu	Glu Leu Gly Leu His Glu Cys Ser Leu	
485	490	495
Pro Val Ser Pro Leu Gly Ser	Ile Ala Thr Arg Phe Leu Glu Glu Glu	
500	505	510
Glu Leu Arg Ser His His Ile	Leu Glu Arg Leu Asp Ala His Ile Glu	
515	520	525
Glu Leu Lys Arg Glu Ser Glu	Lys Thr Val Arg Gln Phe Thr Ala Leu	
530	535	540
Lys		
545		

<210> 933
 <211> 297
 <212> Amino acid
 <213> Homo sapiens

<400> 933

```

Thr Gly Phe Leu Gly Trp Ser Gln Gly Pro Ser Leu Thr Pro Thr Ser
 1          5          10          15
Leu Ser Ala Leu Tyr Pro Ser Gln Val Glu Glu Thr Gly Val Val Leu
          20          25          30
Ser Leu Glu Gln Thr Glu Gln His Ser Arg Arg Pro Ile Gln Arg Gly
          35          40          45
Ala Pro Ser Gln Lys Asp Thr Pro Asn Pro Gly Asp Ser Leu Asp Thr
          50          55          60
Pro Gly Pro Arg Ile Leu Ala Phe Leu His Pro Pro Ser Leu Ser Glu
          65          70          75          80
Ala Ala Leu Ala Ala Asp Pro Arg Arg Phe Cys Ser Pro Asp Leu Arg
          85          90          95
Arg Leu Leu Gly Pro Ile Leu Asp Gly Ala Ser Val Ala Ala Thr Pro
          100          105          110
Ser Thr Pro Leu Ala Thr Arg His Pro Gln Ser Pro Leu Ser Ala Asp
          115          120          125
Leu Pro Asp Glu Leu Pro Val Gly Thr Glu Asn Val His Arg Leu Phe
          130          135          140
Thr Ser Gly Lys Asp Thr Glu Ala Val Glu Thr Asp Leu Asp Ile Ala
          145          150          155          160
Gln Asp Ala Asp Ala Leu Asp Leu Glu Met Leu Ala Pro Tyr Ile Ser
          165          170          175
Met Asp Asp Asp Phe Gln Leu Asn Ala Ser Glu Gln Leu Pro Arg Ala
          180          185          190
Tyr His Arg Pro Leu Gly Ala Val Pro Arg Pro Arg Ala Arg Ser Phe
          195          200          205
His Gly Leu Ser Pro Pro Ala Leu Glu Pro Ser Leu Leu Pro Arg Trp
          210          215          220
Gly Ser Asp Pro Arg Leu Ser Cys Ser Ser Pro Ser Arg Gly Asp Pro
          225          230          235          240
Ser Ala Ser Ser Pro Met Ala Gly Ala Arg Lys Arg Thr Leu Ala Gln
          245          250          255
Ser Ser Lys Asp Glu Asp Glu Gly Val Glu Leu Leu Gly Val Arg Pro
          260          265          270
Pro Lys Arg Ser Pro Ser Pro Glu His Glu Asn Phe Leu Leu Phe Pro
          275          280          285
Leu Ser Leu Ser Phe Leu Leu Thr Gly
          290          295          297

```

<210> 934

<211> 140

<212> Amino acid

<213> Homo sapiens

<400> 934

```

Glu Leu Gln Asp Cys Phe Asp Val His Asp Ala Ser Trp Glu Glu Gln
 1          5          10          15
Ile Phe Trp Gly Trp His Asn Asp Val His Ile Phe Asp Thr Lys Thr
          20          25          30
Gln Thr Trp Phe Gln Pro Glu Ile Lys Gly Gly Val Pro Pro Gln Pro
          35          40          45
Arg Ala Ala His Thr Cys Ala Val Leu Gly Asn Lys Gly Tyr Ile Phe
          50          55          60
Gly Gly Arg Val Leu Gln Thr Arg Met Asn Asp Leu His Tyr Leu Asn
          65          70          75          80
Leu Asp Thr Trp Thr Trp Ser Gly Arg Ile Thr Ile Asn Gly Glu Ser

```

				85					90					95					
Pro	Lys	His	Arg	Ser	Trp	His	Thr	Leu	Thr	Pro	Ile	Ala	Asp	Asp	Lys				
			100					105					110						
Leu	Phe	Leu	Cys	Gly	Gly	Leu	Asn	Ala	Tyr	Asn	Met	Pro	Leu	Ser	Asp				
		115					120					125							
Gly	Trp	Ile	His	Asn	Val	Thr	Thr	His	Cys	Trp	Lys								
	130						135				140								

<210> 935
 <211> 97
 <212> Amino acid
 <213> Homo sapiens

<400> 935

Phe	Phe	Phe	Leu	Arg	Thr	Arg	Ser	His	Ser	Val	Thr	Pro	Arg	Trp	Glu				
1				5					10					15					
Cys	Ser	Asp	Asp	Ile	Thr	Ala	His	Trp	Gln	Pro	Gln	Pro	Trp	Gly	Ser				
		20						25					30						
Ser	Asp	Pro	Leu	Thr	Phe	Ser	Arg	Pro	Gln	Val	Val	Val	Pro	Pro	Arg				
		35					40					45							
His	Thr	Thr	Leu	Cys	Pro	Ala	Asn	Phe	Phe	Val	Phe	Cys	Ile	Phe	Cys				
	50					55				60									
Arg	Asn	Arg	Ile	Ser	Pro	Cys	Trp	Pro	Gly	Trp	Ser	Arg	Thr	Pro	Trp				
65				70					75					80					
Ala	Gln	Leu	Ile	Arg	Leu	Pro	Arg	Pro	Pro	Lys	Val	Leu	Gly	Leu	Gln				
				85					90					95					

Val
97

<210> 936
 <211> 245
 <212> Amino acid
 <213> Homo sapiens

<400> 936

Pro	Arg	Glu	Gly	Gln	Val	Lys	Gln	Gly	Leu	Leu	Gly	Asp	Cys	Trp	Phe				
1				5				10					15						
Leu	Cys	Ala	Cys	Ala	Ala	Leu	Gln	Lys	Ser	Arg	His	Leu	Leu	Asp	Gln				
		20						25				30							
Val	Ile	Pro	Pro	Gly	Gln	Pro	Ser	Trp	Ala	Asp	Gln	Glu	Tyr	Arg	Gly				
	35					40					45								
Ser	Phe	Thr	Cys	Arg	Ile	Trp	Gln	Phe	Gly	Arg	Trp	Val	Glu	Val	Thr				
	50				55					60									
Thr	Asp	Asp	Arg	Leu	Pro	Cys	Leu	Ala	Gly	Arg	Leu	Cys	Phe	Ser	Arg				
65				70				75						80					
Cys	Gln	Arg	Glu	Asp	Val	Phe	Trp	Leu	Pro	Leu	Leu	Glu	Lys	Val	Tyr				
			85					90					95						
Ala	Lys	Val	His	Gly	Ser	Tyr	Glu	His	Leu	Trp	Ala	Gly	Gln	Val	Ala				
		100					105					110							
Asp	Ala	Leu	Val	Asp	Leu	Thr	Gly	Gly	Leu	Ala	Glu	Arg	Trp	Asn	Leu				
	115					120					125								
Lys	Gly	Val	Ala	Gly	Ser	Gly	Gly	Gln	Gln	Asp	Arg	Pro	Gly	Arg	Trp				
	130					135					140								

Glu His Arg Thr Cys Arg Gln Leu Leu His Leu Lys Asp Gln Cys Leu

```

145          150          155          160
Ile Ser Cys Cys Val Leu Ser Pro Arg Ala Gly Glu Ala Arg Gly Gln
          165          170          175
His Gly Arg Ala Ala Ala Ser Val Pro Pro Thr Ala Arg Pro Gln Ala
          180          185          190
His Cys Ser Phe Leu Cys Asp Trp Leu His Ser Pro Val Arg Thr Lys
          195          200          205
Trp Glu Glu Val Ser Leu Phe Ser Arg Val Val Ser Ser Val Cys Asp
          210          215          220
Leu Pro Leu Leu Ser Ser Ser Arg Gly Thr Trp Pro Phe Ser Pro Leu
225          230          235          240
Thr Ser Pro Phe His
          245

```

```

<210> 937
<211> 211
<212>Amino acid
<213> Homo sapiens

```

```

<400> 937
Ala Glu Cys Leu Glu Ala Ser Ile Ala Arg Tyr Ala His Arg Val Ala
 1          5          10          15
Asn Ser Arg Tyr Thr Phe Asp Gly Glu Thr Val Thr Leu Ser Pro Ser
          20          25          30
Gln Gly Val Asn Gln Leu His Gly Gly Pro Glu Gly Phe Asp Lys Arg
          35          40          45
Arg Trp Gln Ile Val Asn Gln Asn Asp Arg Gln Val Leu Phe Ala Leu
          50          55          60
Ser Ser Asp Asp Gly Asp Gln Gly Phe Pro Gly Asn Leu Gly Ala Thr
          65          70          75          80
Val Gln Tyr Arg Leu Thr Asp Asp Asn Arg Ile Ser Ile Thr Tyr Arg
          85          90          95
Ala Thr Val Asp Lys Pro Cys Pro Val Asn Met Thr Asn His Val Tyr
          100          105          110
Phe Asn Leu Asp Gly Glu Gln Ser Asp Val Arg Asn His Lys Leu Gln
          115          120          125
Ile Leu Ala Asp Glu Tyr Leu Pro Val Asp Glu Gly Gly Ile Pro His
          130          135          140
Asp Gly Leu Lys Ser Val Ala Gly Thr Ser Phe Asp Phe Arg Ser Ala
145          150          155          160
Lys Ile Ile Ala Ser Glu Phe Leu Ala Asp Asp Asp Gln Arg Lys Val
          165          170          175
Lys Gly Tyr Asp His Ala Phe Leu Leu Gln Ala Lys Gly Asp Gly Lys
          180          185          190
Lys Val Ala Ala His Val Trp Ser Ala Asp Glu Lys Leu Gln Leu Lys
          195          200          205
Val Tyr Thr
210 211

```

```

<210> 938
<211> 118
<212>Amino acid
<213> Homo sapiens

```

<400> 938

```

Pro Leu Ser Arg Phe Leu Ser Lys Glu Ser Gln Glu Asp Trp Gly Met
 1          5          10          15
Glu Arg Gln Ser Arg Val Met Ser Glu Lys Asp Glu Tyr Gln Phe Gln
          20          25          30
His Gln Gly Ala Val Glu Leu Leu Val Phe Asn Phe Leu Leu Ile Leu
          35          40          45
Thr Ile Leu Thr Ile Trp Leu Phe Lys Asn His Arg Phe Arg Phe Leu
          50          55          60
His Glu Thr Gly Gly Ala Met Val Tyr Asp Lys Pro Pro Lys Phe Ala
          65          70          75          80
Met Ser Arg Glu Gln Met Ser Gln Ser Cys Ser His Thr Ala His Asn
          85          90          95
Ala Ser Leu Leu Thr Asp Ala Gly Pro Leu Ser Cys Gly Glu Ser Arg
          100          105          110
Ala Ser Cys Leu Phe Leu
          115          118

```

<210> 939

<211> 143

<212>Amino acid

<213> Homo sapiens

<400> 939

```

Asp Ser Lys Glu Pro Arg Leu Gln Gln Leu Gly Leu Leu Glu Glu Glu
 1          5          10          15
Gln Leu Arg Gly Leu Gly Phe Arg Gln Thr Arg Gly Tyr Lys Ser Leu
          20          25          30
Ala Gly Cys Leu Gly His Gly Pro Leu Val Leu Gln Leu Leu Ser Phe
          35          40          45
Thr Leu Leu Ala Gly Leu Leu Val Gln Val Ser Lys Val Pro Ser Ser
          50          55          60
Ile Ser Gln Glu Gln Ser Arg Gln Asp Ala Ile Tyr Gln Asn Leu Thr
          65          70          75          80
Gln Leu Lys Ala Ala Val Gly Glu Leu Ser Glu Lys Ser Lys Leu Gln
          85          90          95
Glu Ile Tyr Gln Glu Leu Thr Gln Leu Lys Ala Ala Val Gly Glu Leu
          100          105          110
Pro Glu Lys Ser Lys Leu Gln Glu Ile Tyr Gln Glu Leu Thr Trp Leu
          115          120          125
Lys Ala Ala Val Gly Glu Leu Pro Glu Lys Ser Lys Met Gln Glu
          130          135          140          143

```

<210> 940

<211> 63

<212>Amino acid

<213> Homo sapiens

<400> 940

```

Met Gln Ser Ile Ala Trp Gly His Arg Arg Asp Arg Gly Glu Ser Pro
 1          5          10          15
Leu Gly Trp Gly Gln Glu Ser Glu Ala Ser Pro Ser Ala Leu Thr Glu
          20          25          30
Ala Pro Lys Ala Ala His Thr Thr Arg Leu Gly Phe Leu Ala Ala Asn

```

```
<210> 941
<211> 238
<212> Amino acid
<213> Homo sapiens
```

```
<210> 942
<211> 158
<212> Amino acid
<213> Homo sapiens
```

519

50						55						60					
Lys	Val	Val	Glu	Arg	Glu	Leu	Asp	Ala	Leu	Leu	Glu	Gln	Gln	Asn	Thr		
65						70					75				80		
Ile	Glu	Ser	Lys	Met	Val	Thr	Leu	His	Arg	Met	Gly	Pro	Asn	Leu	Gln		
				85						90				95			
Leu	Ile	Glu	Gly	Asp	Ala	Lys	Gln	Leu	Ala	Gly	Met	Ile	Thr	Phe	Thr		
			100					105					110				
Cys	Asn	Leu	Ala	Glu	Asn	Val	Ser	Ser	Lys	Val	Arg	Gln	Leu	Asp	Leu		
		115					120					125					
Ala	Lys	Asn	Arg	Leu	Tyr	Gln	Ala	Ile	Gln	Arg	Ala	Asp	Asp	Ile	Leu		
	130					135					140						
Asp	Leu	Lys	Phe	Cys	Met	Asp	Gly	Val	Gln	Thr	Ala	Leu	Arg				
145					150					155			158				

<210> 943
 <211> 235
 <212> Amino acid
 <213> Homo sapiens

<400> 943																	
Ala	Val	Glu	Phe	Arg	Val	Pro	Arg	Ser	Gly	Ser	Ala	Tyr	Leu	Tyr	Ser		
1				5					10					15			
Tyr	Val	Thr	Val	Gly	Glu	Leu	Trp	Ala	Phe	Thr	Thr	Gly	Trp	Asn	Leu		
			20					25					30				
Ile	Leu	Ser	Tyr	Val	Ile	Gly	Thr	Ala	Ser	Val	Ala	Arg	Ala	Trp	Ser		
	35					40						45					
Ser	Ala	Phe	Asp	Asn	Leu	Ile	Gly	Asn	His	Ile	Ser	Lys	Thr	Leu	Gln		
	50					55					60						
Gly	Ser	Ile	Ala	Leu	His	Val	Pro	His	Val	Leu	Ala	Glu	Tyr	Pro	Asp		
	65				70					75				80			
Phe	Phe	Ala	Leu	Gly	Leu	Val	Leu	Leu	Leu	Thr	Gly	Leu	Leu	Ala	Leu		
			85					90						95			
Gly	Ala	Ser	Glu	Ser	Ala	Leu	Val	Thr	Lys	Val	Phe	Thr	Gly	Val	Asn		
		100					105					110					
Leu	Leu	Val	Leu	Gly	Phe	Val	Met	Ile	Ser	Gly	Phe	Val	Lys	Gly	Asp		
	115					120					125						
Val	His	Asn	Trp	Lys	Leu	Thr	Glu	Glu	Asp	Tyr	Glu	Leu	Ala	Met	Ala		
	130				135					140							
Glu	Leu	Asn	Asp	Thr	Tyr	Ser	Leu	Gly	Pro	Leu	Gly	Ser	Gly	Gly	Phe		
145				150					155					160			
Val	Pro	Phe	Gly	Phe	Glu	Gly	Ile	Leu	Arg	Gly	Ala	Ala	Thr	Cys	Phe		
			165					170						175			
Tyr	Ala	Phe	Val	Gly	Phe	Asp	Cys	Ile	Ala	Thr	Thr	Gly	Glu	Glu	Ala		
		180					185						190				
Gln	Asn	Pro	Gln	Arg	Ser	Ile	Pro	Met	Gly	Ile	Gly	Ile	Ser	Leu	Ser		
	195					200					205						
Val	Cys	Phe	Leu	Ala	Asp	Phe	Ala	Val	Ser	Ser	Ala	Leu	Thr	Leu	Met		
	210					215					220						
Met	Pro	Tyr	Tyr	Gln	Leu	Gln	Pro	Glu	Ser	Pro							
225					230					235							

<210> 944
 <211> 284
 <212> Amino acid
 <213> Homo sapiens

<400> 944

```

Gly Phe His Pro Asn Thr Thr His Tyr Arg Ala Arg Ala Ala Ala Arg
 1          5          10          15
Ala Gly Ala Gly Ser Phe Val Gly Glu Val Ser Ala Val Asp Lys Asp
          20          25          30
Phe Gly Pro Asn Gly Glu Val Arg Tyr Ser Phe Glu Met Val Gln Pro
          35          40          45
Asp Phe Glu Leu His Ala Ile Ser Gly Glu Ile Thr Asn Thr His Gln
          50          55          60
Phe Asp Arg Glu Ser Leu Met Arg Arg Arg Gly Thr Ala Val Phe Ser
          65          70          75          80
Phe Thr Val Ile Ala Thr Asp Gln Gly Ile Pro Gln Pro Leu Lys Asp
          85          90          95
Gln Ala Thr Val His Val Tyr Met Lys Asp Ile Asn Asp Asn Ala Pro
          100          105          110
Lys Phe Leu Lys Asp Phe Tyr Gln Ala Thr Ile Ser Glu Ser Ala Ala
          115          120          125
Asn Leu Thr Gln Val Leu Arg Val Ser Ala Ser Asp Val Asp Glu Gly
          130          135          140
Asn Asn Gly Leu Ile His Tyr Ser Ile Ile Lys Gly Asn Glu Glu Arg
          145          150          155          160
Gln Phe Ala Ile Asp Ser Thr Ser Gly Gln Val Thr Leu Ile Gly Lys
          165          170          175
Leu Asp Tyr Glu Ala Thr Pro Ala Tyr Ser Leu Val Ile Gln Ala Val
          180          185          190
Asp Ser Gly Thr Ile Pro Leu Asn Ser Thr Cys Thr Leu Asn Ile Asp
          195          200          205
Ile Leu Asp Glu Asn Asp Asn Thr Pro Phe Phe Leu Leu Asn Gln His
          210          215          220
Phe Phe Val Asp Val Leu Glu Asn Met Arg Ile Gly Glu Leu Gly Ala
          225          230          235          240
Ser Gly Thr Ala Thr Asp Ser Asp Ser Gly Asp Ile Ala Asp Leu Tyr
          245          250          255
Tyr Lys Phe Thr Gly Thr Lys His Pro Pro Gly Thr Phe Ser Ile Ser
          260          265          270
Pro Lys His Leu Gly Val Phe Phe Leu Ala Gln Lys
          275          280          284

```

<210> 945

<211> 119

<212> Amino acid

<213> Homo sapiens

<400> 945

```

Gly Asp Cys Tyr Asp Leu Tyr Gly Gly Glu Lys Phe Ala Thr Leu Ala
 1          5          10          15
Glu Leu Val Gln Tyr Tyr Met Glu His His Gly Gln Leu Lys Glu Lys
          20          25          30
Asn Gly Asp Val Ile Glu Leu Lys Asn Pro Leu Asn Cys Ala Asp Pro
          35          40          45
Thr Ser Gln Arg Trp Phe His Gly His Leu Ser Gly Lys Glu Ala Glu
          50          55          60
Lys Leu Leu Thr Glu Lys Gly Lys His Ser Ser Phe Leu Val Arg Glu
          65          70          75          80
Ser Gln Ser His Pro Gly Asp Phe Val Leu Ser Val Cys Thr Gly Asp
          85          90          95
Asp Lys Gly Glu Ser Asn Asp Gly Lys Ser Lys Val Thr His Val Met

```

```
<210> 946
<211> 166
<212> Amino acid
<213> Homo sapiens
```

```
<210> 947
<211> 121
<212> Amino acid
<213> Homo sapiens
```

522

115

120 121

<210> 948
 <211> 191
 <212> Amino acid
 <213> Homo sapiens

<400> 948
 Gly Ala Ser Arg Val Glu Ala Gly Ser Ala Asn Gly Met Leu Ile Asp
 1 5 10 15
 Gly Gly Ser Gln Ile Val Lys Val Gln Gly His Ala Asp Gly Thr Thr
 20 25 30
 Ile Asn Lys Ser Gly Ser Gln Asp Val Val Gln Gly Ser Leu Ala Thr
 35 40 45
 Asn Thr Thr Ile Asn Gly Gly Arg Gln Tyr Val Glu Gln Ser Thr Val
 50 55 60
 Glu Thr Thr Thr Ile Lys Asn Gly Gly Glu Gln Arg Val Tyr Glu Ser
 65 70 75 80
 Arg Ala Leu Asp Thr Thr Ile Glu Gly Gly Thr Gln Ser Leu Asn Ser
 85 90 95
 Lys Ser Thr Ala Lys Asn Thr His Ile Tyr Ser Gly Gly Thr Gln Ile
 100 105 110
 Val Asp Asn Thr Ser Thr Ser Asp Val Ile Glu Val Tyr Ser Gly Gly
 115 120 125
 Val Leu Asp Val Arg Gly Gly Thr Ala Thr Asn Val Thr Gln His Asp
 130 135 140
 Gly Ala Ile Leu Lys Thr Asn Thr Asn Gly Thr Thr Val Ser Gly Thr
 145 150 155 160
 Asn Ser Glu Gly Ala Phe Ser Ile His Asn His Val Ala Asp Asn Val
 165 170 175
 Leu Leu Glu Asn Gly Gly His Leu Asp Ile Asn Ala Tyr Gly Ser
 180 185 190 191

<210> 949
 <211> 98
 <212> Amino acid
 <213> Homo sapiens

<400> 949
 Phe Phe Ser Ser Ile Gln Leu Thr Asp Asp Gln Gly Pro Val Leu Met
 1 5 10 15
 Thr Thr Val Ala Met Pro Val Phe Ser Lys Gln Asn Glu Thr Arg Ser
 20 25 30
 Lys Gly Ile Leu Leu Gly Val Val Gly Thr Asp Val Pro Val Lys Glu
 35 40 45
 Leu Leu Lys Thr Ile Pro Lys Tyr Lys Val Met Asn Asp Leu Ile Pro
 50 55 60
 Glu Ile Lys Ala Thr Glu Met Pro Arg Ala Leu Phe Ser Gln Ser Ser
 65 70 75 80
 Gly Phe Lys Leu Tyr Phe Gly Ala Met Phe Leu Leu Thr Thr Ile Thr
 85 90 95
 Ala Cys
 98

<210> 950
 <211> 196
 <212>Amino acid
 <213> Homo sapiens

<400> 950
 Ser Cys Ser Gly Thr Gly Thr Asn Ala Cys Tyr Met Glu Asp Met Ser
 1 5 10 15
 Asn Ile Asp Leu Val Glu Gly Asp Glu Gly Arg Met Cys Ile Asn Thr
 20 25 30
 Glu Trp Gly Ala Phe Gly Asp Asp Gly Ala Leu Glu Asp Ile Arg Thr
 35 40 45
 Glu Phe Asp Arg Glu Leu Asp Leu Gly Ser Leu Asn Pro Gly Lys Gln
 50 55 60
 Leu Phe Glu Lys Met Ile Ser Gly Leu Tyr Leu Gly Glu Leu Val Arg
 65 70 75 80
 Leu Ile Leu Leu Lys Met Ala Lys Ala Gly Leu Leu Phe Gly Gly Glu
 85 90 95
 Lys Ser Ser Ala Leu His Thr Lys Gly Lys Ile Glu Thr Arg His Val
 100 105 110
 Ala Ala Met Glu Lys Tyr Lys Glu Gly Leu Ala Asn Thr Arg Glu Ile
 115 120 125
 Leu Val Asp Leu Gly Leu Glu Pro Ser Glu Ala Asp Cys Ile Ala Val
 130 135 140
 Gln His Val Cys Thr Ile Val Ser Phe Arg Ser Ala Asn Leu Cys Ala
 145 150 155 160
 Ala Ala Leu Ala Ala Ile Leu Thr Arg Leu Arg Glu Asn Lys Lys Val
 165 170 175
 Glu Arg Leu Arg Thr Thr Val Gly Met Asp Gly Thr Leu Tyr Lys Ile
 180 185 190
 His Pro Gln Tyr
 195 196

<210> 951
 <211> 721
 <212>Amino acid
 <213> Homo sapiens

<400> 951
 Phe Val Ala Ile Ala Thr Asn Gly Val Val Pro Ala Gly Gly Ser Tyr
 1 5 10 15
 Tyr Met Ile Ser Arg Ser Leu Gly Pro Glu Phe Gly Gly Ala Val Gly
 20 25 30
 Leu Cys Phe Tyr Leu Gly Thr Thr Phe Ala Gly Ala Met Tyr Ile Leu
 35 40 45
 Gly Thr Ile Glu Ile Leu Leu Ala Tyr Leu Phe Pro Ala Met Ala Ile
 50 55 60
 Phe Lys Ala Glu Asp Ala Ser Gly Glu Ala Ala Ala Met Leu Asn Asn
 65 70 75 80
 Met Arg Val Tyr Gly Thr Cys Val Leu Thr Cys Met Ala Thr Val Val
 85 90 95
 Phe Val Gly Val Lys Tyr Val Asn Lys Phe Ala Leu Val Phe Leu Gly
 100 105 110
 Cys Val Ile Leu Ser Ile Leu Ala Ile Tyr Ala Gly Val Ile Lys Ser

115	120	125
Ala Phe Asp Pro Pro Asn Phe	Pro Ile Cys Leu Leu Gly Asn Arg Thr	
130	135	140
Leu Ser Arg His Gly Phe Asp Val Cys Ala Lys Leu Ala Trp Glu Gly		
145	150	155
Asn Glu Thr Val Thr Thr Arg Leu Trp Gly Leu Phe Cys Ser Ser Arg		
165	170	175
Phe Leu Asn Ala Thr Cys Asp Glu Tyr Phe Thr Arg Asn Asn Val Thr		
180	185	190
Glu Ile Gln Gly Ile Pro Gly Ala Ala Ser Gly Leu Ile Lys Glu Asn		
195	200	205
Leu Trp Ser Ser Tyr Leu Thr Lys Gly Val Ile Val Glu Arg Ser Gly		
210	215	220
Met Thr Ser Val Gly Leu Ala Asp Gly Thr Pro Ile Asp Met Asp His		
225	230	235
Pro Tyr Val Phe Ser Asp Met Thr Ser Tyr Phe Thr Leu Leu Val Gly		
245	250	255
Ile Tyr Phe Pro Ser Val Thr Gly Ile Met Ala Gly Ser Asn Arg Ser		
260	265	270
Gly Asp Leu Arg Asp Ala Gln Lys Ser Ile Pro Thr Gly Thr Ile Leu		
275	280	285
Ala Ile Ala Thr Thr Ser Ala Val Tyr Ile Ser Ser Val Val Leu Phe		
290	295	300
Gly Ala Cys Ile Glu Gly Val Val Leu Arg Asp Lys Phe Gly Glu Ala		
305	310	315
Val Asn Gly Asn Leu Val Val Gly Thr Leu Ala Trp Pro Ser Pro Trp		
325	330	335
Val Ile Val Ile Gly Ser Phe Phe Ser Thr Cys Gly Ala Gly Leu Gln		
340	345	350
Ser Leu Thr Gly Ala Pro Arg Leu Leu Gln Ala Ile Ser Arg Asp Gly		
355	360	365
Ile Val Pro Phe Leu Gln Val Phe Gly His Gly Lys Ala Asn Gly Glu		
370	375	380
Pro Thr Trp Ala Leu Leu Leu Thr Ala Cys Ile Cys Glu Ile Gly Ile		
385	390	395
Leu Ile Ala Ser Leu Asp Glu Val Ala Pro Ile Leu Ser Met Phe Phe		
405	410	415
Leu Met Cys Tyr Met Phe Val Asn Leu Ala Cys Ala Val Gln Thr Leu		
420	425	430
Leu Arg Thr Pro Asn Trp Arg Pro Arg Phe Arg Tyr Tyr His Trp Thr		
435	440	445
Leu Ser Phe Leu Gly Met Ser Leu Cys Leu Ala Leu Met Phe Ile Cys		
450	455	460
Ser Trp Tyr Tyr Ala Leu Val Ala Met Leu Ile Ala Gly Leu Ile Tyr		
465	470	475
Lys Tyr Ile Glu Tyr Arg Gly Ala Lys Lys Glu Trp Gly Asp Gly Ile		
485	490	495
Arg Gly Leu Ser Leu Ser Ala Ala Arg Tyr Ala Leu Leu Arg Leu Glu		
500	505	510
Glu Gly Pro Pro His Thr Lys Asn Trp Arg Pro Gln Leu Leu Val Leu		
515	520	525
Val Arg Val Asp Gln Asp Gln Asn Val Val His Pro Gln Leu Leu Ser		
530	535	540
Leu Thr Ser Gln Leu Lys Ala Gly Lys Gly Leu Thr Ile Val Gly Ser		
545	550	555
Val Leu Glu Gly Thr Phe Leu Glu Asn His Pro Gln Ala Gln Arg Ala		
565	570	575
Glu Glu Ser Ile Arg Arg Leu Met Glu Ala Glu Lys Val Lys Gly Phe		
580	585	590
Cys Gln Val Val Ile Ser Ser Asn Leu Arg Asp Gly Val Ser His Leu		
595	600	605
Ile Gln Ser Gly Gly Leu Gly Gly Leu Gln His Asn Thr Val Leu Val		
610	615	620
Gly Trp Pro Arg Asn Trp Arg Gln Lys Glu Asp His Gln Thr Trp Arg		

```

625          630          635          640
Asn Phe Ile Glu Leu Val Arg Glu Thr Thr Ala Gly His Leu Ala Leu
          645          650          655
Leu Val Thr Lys Asn Val Ser Met Phe Pro Gly Asn Pro Glu Arg Phe
          660          665          670
Ser Glu Gly Ser Ile Asp Arg Trp Gly Ile Gly His Asp Gly Gly Met
          675          680          685
Leu Met Leu Val Pro Phe Leu Leu Arg His His Lys Val Trp Arg Lys
          690          695          700
Cys Lys Met Arg Ile Phe Thr Val Ala Gln Met Val Asp Met His Ala
705          710          715          720
Met
721

```

```

<210> 952
<211> 42
<212> Amino acid
<213> Homo sapiens

```

```

<400> 952
Phe Tyr Leu Arg Leu Leu Ser Phe Phe Cys Phe Gln Glu His Glu Lys
 1          5          10          15
Arg Cys Trp Ser Val Asp Phe Asn Leu Met Asp Pro Lys Leu Leu Ala
          20          25          30
Ser Gly Ser Asp Asp Ala Lys Gly Thr Val
          35          40          42

```

```

<210> 953
<211> 80
<212> Amino acid
<213> Homo sapiens

```

```

<400> 953
Arg Asn Ser Lys Ala Met His Arg Ser Ser Cys Asp Gly Pro Leu Leu
 1          5          10          15
Ser Leu Pro Ser Val Gly Arg Ser Ala Thr His Ala Leu Val Gln Ala
          20          25          30
Gln Leu Ile Cys Ser Gly Ala Arg Arg Gly Met His Ala Phe Ile Val
          35          40          45
Pro Ile Arg Ser Leu Gln Asp His Thr Pro Leu Pro Gly Lys Pro Ile
          50          55          60
Met Leu Pro Gln Gly Thr Leu Pro Gly Gly Glu Pro Arg Trp Pro Pro
65          70          75          80

```

```

<210> 954
<211> 202
<212> Amino acid
<213> Homo sapiens

```

<400> 954
 Cys Gly Thr Leu Ile Leu Gln Ala Arg Ala Tyr Val Gly Pro His Val
 1 5 10 15
 Leu Ala Val Val Thr Arg Thr Gly Phe Cys Thr Ala Lys Gly Gly Leu
 20 25 30
 Val Ser Ser Ile Leu His Pro Arg Pro Ile Asn Phe Lys Phe Tyr Lys
 35 40 45
 His Ser Met Lys Phe Val Ala Ala Leu Ser Val Leu Ala Leu Leu Gly
 50 55 60
 Thr Ile Tyr Ser Ile Phe Ile Leu Tyr Arg Asn Arg Val Pro Leu Asn
 65 70 75 80
 Glu Ile Val Ile Arg Ala Leu Asp Leu Val Thr Val Val Val Pro Pro
 85 90 95
 Ala Leu Pro Ala Ala Met Thr Val Cys Thr Leu Tyr Ala Gln Ser Arg
 100 105 110
 Leu Arg Arg Gln Gly Ile Phe Cys Ile His Pro Leu Arg Ile Asn Leu
 115 120 125
 Gly Gly Lys Leu Gln Leu Val Cys Phe Asp Lys Thr Gly Thr Leu Thr
 130 135 140
 Glu Asp Gly Leu Asp Val Met Gly Val Val Pro Leu Lys Gly Gln Ala
 145 150 155 160
 Phe Leu Pro Leu Val Pro Glu Pro Arg Arg Leu Pro Val Gly Pro Leu
 165 170 175
 Leu Arg Ala Leu Ala Thr Cys His Ala Leu Ser Arg Leu Gln Asp Thr
 180 185 190
 Pro Val Gly Asp Pro Met Asp Leu Lys Met
 195 200 202

<210> 955
 <211> 188
 <212> Amino acid
 <213> Homo sapiens

<400> 955
 Gln Ile Glu Tyr Phe Arg Ser Leu Leu Asp Glu His His Ile Ser Tyr
 1 5 10 15
 Val Ile Asp Glu Asp Val Lys Ser Gly Arg Tyr Met Glu Leu Glu Gln
 20 25 30
 Arg Tyr Met Asp Leu Ala Glu Asn Ala Arg Phe Glu Arg Glu Gln Leu
 35 40 45
 Leu Gly Val Gln Gln His Leu Ser Asn Thr Leu Lys Met Ala Glu Gln
 50 55 60
 Asp Asn Lys Glu Ala Gln Glu Met Ile Gly Ala Leu Lys Glu Arg Ser
 65 70 75 80
 His His Met Glu Arg Ile Ile Glu Ser Glu Gln Lys Gly Lys Ala Ala
 85 90 95
 Leu Ala Ala Thr Leu Glu Glu Tyr Lys Ala Thr Val Ala Ser Asp Gln
 100 105 110
 Ile Glu Met Asn Arg Leu Lys Ala Gln Leu Glu Asn Glu Lys Gln Lys
 115 120 125
 Val Ala Glu Leu Tyr Ser Ile His Asn Ser Gly Asp Lys Ser Asp Ile
 130 135 140
 Gln Asp Leu Leu Glu Ser Val Arg Leu Asp Lys Glu Lys Ala Glu Thr
 145 150 155 160
 Leu Ala Ser Ser Leu Gln Glu Asp Leu Ala His Thr Arg Asn Asp Ala
 165 170 175
 Asn Arg Leu Gln Asp Ala Ile Ala Lys Gly Arg Gly

180

185

188

<210> 956
 <211> 132
 <212>Amino acid
 <213> Homo sapiens

<400> 956
 Ala Arg Tyr Arg Phe Thr Leu Ser Ala Arg Thr Gln Val Gly Ser Gly
 1 5 10 15
 Glu Ala Val Thr Glu Glu Ser Pro Ala Pro Pro Asn Glu Ala Thr Pro
 20 25 30
 Thr Ala Ala Pro Pro Thr Leu Pro Pro Thr Thr Val Gly Ala Thr Gly
 35 40 45
 Ala Val Ser Ser Thr Asp Ala Thr Ala Ile Ala Ala Thr Thr Glu Ala
 50 55 60
 Thr Thr Val Pro Ile Ile Pro Thr Val Ala Pro Thr Thr Met Ala Thr
 65 70 75 80
 Thr Thr Thr Val Ala Thr Thr Thr Thr Thr Thr Ala Ala Ala Thr Thr
 85 90 95
 Thr Thr Glu Ser Pro Pro Thr Thr Thr Ser Gly Thr Lys Ile His Glu
 100 105 110
 Ser Ala Pro Asp Glu Gln Ser Ile Trp Asn Val Thr Val Leu Pro Asn
 115 120 125
 Ser Lys Trp Ala
 130 132

<210> 957
 <211> 220
 <212>Amino acid
 <213> Homo sapiens

<400> 957
 Leu Lys Ser Thr Gln Asp Glu Ile Asn Gln Ala Arg Ser Lys Leu Ser
 1 5 10 15
 Gln Leu His Glu Ser Arg Gln Glu Ala His Arg Ser Leu Glu Gln Tyr
 20 25 30
 Asp Gln Val Leu Asp Gly Ala His Gly Ala Ser Leu Thr Asp Leu Ala
 35 40 45
 Asn Leu Ser Glu Gly Val Ser Leu Ala Glu Arg Gly Ser Phe Gly Ala
 50 55 60
 Met Asp Asp Pro Phe Lys Asn Lys Ala Leu Leu Phe Ser Asn Asn Thr
 65 70 75 80
 Gln Glu Leu His Pro Asp Pro Phe Gln Thr Glu Asp Pro Phe Lys Ser
 85 90 95
 Asp Pro Phe Lys Gly Ala Asp Pro Phe Lys Gly Asp Pro Phe Gln Asn
 100 105 110
 Asp Pro Phe Ala Glu Gln Gln Thr Thr Ser Thr Asp Pro Phe Gly Gly
 115 120 125
 Asp Pro Phe Lys Glu Ser Asp Pro Phe Arg Gly Ser Ala Thr Asp Asp
 130 135 140
 Phe Phe Lys Lys Gln Thr Lys Asn Asp Pro Phe Thr Ser Asp Pro Phe
 145 150 155 160
 Thr Lys Asn Pro Ser Leu Pro Ser Lys Leu Asp Pro Phe Glu Ser Ser

```

          165          170          175
Asp Pro Phe Ser Ser Ser Val Ser Ser Lys Gly Ser Asp Pro Phe
          180          185          190
Gly Thr Leu Asp Pro Phe Gly Ser Gly Ser Phe Asn Ser Ala Glu Gly
          195          200          205
Phe Ala Asp Phe Ser Thr Ile Glu Gly Arg Arg Gly
          210          215          220

```

```

<210> 958
<211> 250
<212>Amino acid
<213> Homo sapiens

```

```

          <400> 958
Arg Thr Arg Gly Gly Ser Gly Asn Ser Ser Gln Pro Ser Leu Arg Glu
  1          5          10          15
Gly His Asp Lys Pro Val Phe Asn Gly Ala Gly Lys Pro His Ser Ser
          20          25          30
Thr Ser Ser Pro Ser Val Pro Lys Thr Ser Ala Ser Arg Thr Gln Lys
          35          40          45
Ser Ala Val Glu His Lys Ala Lys Lys Ser Leu Ser His Pro Ser His
          50          55          60
Ser Arg Pro Gly Pro Met Val Thr Pro His Asn Lys Ala Lys Ser Pro
          65          70          75          80
Gly Val Arg Gln Pro Gly Ser Ser Ser Ser Ala Pro Gly Gln Pro
          85          90          95
Ser Thr Gly Val Ala Arg Pro Thr Val Ser Ser Gly Pro Val Pro Arg
          100          105          110
Arg Gln Asn Gly Ser Ser Ser Ser Gly Pro Glu Arg Ser Ile Ser Gly
          115          120          125
Ser Lys Lys Pro Thr Asn Asp Ser Asn Pro Ser Arg Arg Thr Val Ser
          130          135          140
Gly Thr Cys Gly Pro Gly Gln Pro Ala Ser Ser Gly Gly Pro Gly
          145          150          155          160
Arg Pro Ile Ser Gly Ser Val Ser Ser Ala Arg Pro Leu Gly Ser Ser
          165          170          175
Arg Gly Pro Gly Arg Pro Val Ser Ser Pro His Glu Leu Arg Arg Pro
          180          185          190
Val Ser Gly Leu Gly Pro Pro Gly Arg Ser Val Ser Gly Pro Gly Arg
          195          200          205
Ser Ile Ser Gly Ser Ile Pro Ala Gly Arg Thr Val Ser Asn Ser Val
          210          215          220
Pro Gly Arg Pro Val Ser Ser Leu Gly Pro Gly Gln Thr Val Ser Ser
          225          230          235          240
Ser Gly Pro Thr Ile Lys Pro Lys Cys Thr
          245          250

```

```

<210> 959
<211> 48
<212>Amino acid
<213> Homo sapiens

```

```

          <400> 959
Arg Gly Lys Gly Ile Thr Pro Arg Tyr His Leu Cys Ile Ser Asp Pro

```

```

      1           5           10           15
His Asn Leu Lys Ile Cys Cys Arg Val Asn Gly Glu Val Val Gln Ser
      20           25           30
Ser Asn Thr Asn Gln Met Val Phe Lys Thr Glu Asp Leu Ile Ala Trp
      35           40           45           48

```

<210> 960
 <211> 63
 <212>Amino acid
 <213> Homo sapiens

```

      <400> 960
Val Val Ala Val Thr Arg Trp Leu Cys Glu Asn Gly Val Ser Tyr Leu
      1           5           10           15
Arg Lys Cys Val Cys Ser Ala Cys Arg His Gly Thr Arg Cys Ala Gly
      20           25           30
Glu Val Ala Ala Ala Asn Asn Ser His Cys Thr Val Gly Ile Ala
      35           40           45
Phe Asn Ala Lys Ile Gly Gly Met Gly Asn Gln Leu Thr Trp Met
      50           55           60           63

```

<210> 961
 <211> 59
 <212>Amino acid
 <213> Homo sapiens

```

      <400> 961
Gly Ala Pro Pro Pro Phe Val Pro Thr Leu Lys Ser Asp Asp Asp Thr
      1           5           10           15
Ser Asn Phe Asp Glu Pro Lys Lys Asn Ser Trp Val Ser Ser Ser Pro
      20           25           30
Cys Gln Leu Ser Pro Ser Gly Phe Ser Gly Glu Glu Leu Pro Phe Val
      35           40           45
Gly Phe Ser Tyr Ser Lys Ala Leu Gly Ile Leu
      50           55           59

```

<210> 962
 <211> 140
 <212>Amino acid
 <213> Homo sapiens

```

      <400> 962
Phe Val Glu Arg Leu Ala His Leu His Ala Ala Cys Ala Pro Arg Arg
      1           5           10           15
Lys Val Ala Leu Leu Leu Glu Val Cys Arg Asp Val Tyr Ala Gly Leu
      20           25           30
Ala Arg Gly Glu Asn Gln Asp Pro Leu Gly Ala Asp Ala Phe Leu Pro

```

```

      35              40              45
Ala Leu Thr Glu Glu Leu Ile Trp Ser Pro Asp Ile Gly Asp Thr Gln
      50              55              60
Leu Asp Val Glu Phe Leu Met Glu Leu Leu Asp Pro Asp Glu Leu Arg
      65              70              75              80
Gly Glu Ala Gly Tyr Tyr Leu Thr Thr Trp Phe Gly Ala Leu His His
      85              90              95
Ile Ala His Tyr Gln Pro Glu Thr Asp Arg Ala Pro Arg Gly Leu Ser
      100              105              110
Ser Glu Ala Arg Ala Ser Leu His Gln Trp His Arg Arg Arg Thr Leu
      115              120              125
His Arg Lys Asp His Pro Arg Ala Gln Gln Leu Asp
      130              135              140

```

<210> 963
 <211> 153
 <212>Amino acid
 <213> Homo sapiens

```

      <400> 963
Phe Trp Met Asp Pro Tyr Asn Pro Leu Asn Phe Lys Ala Pro Phe Gln
      1              5              10              15
Thr Ser Gly Glu Asn Glu Lys Gly Cys Arg Asp Ser Lys Thr Pro Ser
      20              25              30
Glu Ser Ile Val Ala Ile Ser Glu Cys His Thr Leu Leu Ser Cys Lys
      35              40              45
Val Gln Leu Leu Gly Ser Gln Glu Ser Glu Cys Pro Asp Ser Val Gln
      50              55              60
Arg Asp Val Leu Ser Gly Gly Arg His Thr His Val Lys Arg Lys Lys
      65              70              75              80
Val Thr Phe Leu Glu Glu Val Thr Glu Tyr Tyr Ile Ser Gly Asp Glu
      85              90              95
Asp Arg Lys Gly Pro Trp Glu Glu Phe Ala Arg Asp Gly Cys Arg Phe
      100              105              110
Gln Lys Arg Ile Gln Glu Thr Glu Asp Ala Ile Gly Tyr Cys Leu Thr
      115              120              125
Phe Glu His Arg Glu Arg Met Phe Asn Arg Leu Gln Gly Thr Cys Phe
      130              135              140
Lys Gly Leu Asn Val Leu Lys Gln Cys
      145              150              153

```

<210> 964
 <211> 54
 <212>Amino acid
 <213> Homo sapiens

```

      <400> 964
Ala Ala Ser Thr Ala Tyr Ser Phe Phe Gly Thr Val Glu Asn Met Ala
      1              5              10              15
Pro Lys Val Val Asn Arg Pro Gly His Thr Gln Ser Ala Asp Trp Gly
      20              25              30
Ser Phe Gly Gly Leu Met Gly Arg Phe Glu Phe Gly Ile Phe Leu Lys
      35              40              45
Gly Lys Glu Ile Val Lys

```

50

54

<210> 965
 <211> 39
 <212>Amino acid
 <213> Homo sapiens

<400> 965
 Gly Phe Val Phe Leu Pro Gly Pro Met Ser Val Gly Leu Asp Phe Ser
 1 5 10 15
 Leu Pro Gly Met Glu His Val Tyr Gly Ile Pro Glu His Ala Asp Asn
 20 25 30
 Leu Arg Leu Lys Val Thr Glu
 35 39

<210> 966
 <211> 130
 <212>Amino acid
 <213> Homo sapiens

<400> 966
 Gly Ser Glu Cys Gln Gly Thr Asp Leu Asp Thr Arg Asn Cys Thr Ser
 1 5 10 15
 Asp Leu Cys Val His Thr Ala Ser Gly Pro Glu Asp Val Ala Leu Tyr
 20 25 30
 Val Gly Leu Ile Ala Val Ala Val Cys Leu Val Leu Leu Leu Val
 35 40 45
 Leu Ile Leu Val Tyr Cys Arg Lys Lys Glu Gly Leu Asp Ser Asp Val
 50 55 60
 Ala Asp Ser Ser Ile Leu Thr Ser Gly Phe Gln Pro Val Ser Ile Lys
 65 70 75 80
 Pro Ser Lys Ala Asp Asn Pro His Leu Leu Thr Ile Gln Pro Asp Leu
 85 90 95
 Ser Thr Thr Thr Thr Thr Tyr Gln Gly Ser Leu Cys Pro Arg Gln Asp
 100 105 110
 Gly Pro Ser Pro Lys Phe Gln Leu Thr Asn Gly His Leu Leu Ser Pro
 115 120 125
 Leu Gly
 130

<210> 967
 <211> 259
 <212>Amino acid
 <213> Homo sapiens

<400> 967
 Leu Ile Tyr Asn Glu Asp Met Ile Cys Trp Ile Glu Ser Arg Glu Ser
 1 5 10 15
 Ser Asn Gln Leu Lys Cys Ile Gln Ile Thr Lys Ala Gly Gly Leu Thr

```

      20      25      30
Asp Glu Trp Thr Ile Asn Ile Leu Gln Ser Phe His Asn Val Gln Gln
      35      40      45
Met Ala Ile Asp Trp Leu Thr Arg Asn Leu Tyr Phe Val Asp His Val
      50      55      60
Gly Asp Arg Ile Phe Val Cys Asn Ser Asn Gly Ser Val Cys Val Thr
      65      70      75      80
Leu Ile Asp Leu Glu Leu His Asn Pro Lys Ala Ile Ala Val Asp Pro
      85      90      95
Ile Ala Gly Lys Leu Phe Phe Thr Asp Tyr Gly Asn Val Ala Lys Val
      100      105      110
Glu Arg Cys Asp Met Asp Gly Met Asn Arg Thr Arg Ile Ile Asp Ser
      115      120      125
Lys Thr Glu Gln Pro Ala Ala Leu Ala Leu Asp Leu Val Asn Lys Leu
      130      135      140
Val Tyr Trp Val Asp Leu Tyr Leu Asp Tyr Val Gly Val Val Asp Tyr
      145      150      155      160
Gln Gly Lys Asn Arg His Ala Val Ile Gln Gly Arg Gln Val Arg His
      165      170      175
Leu Tyr Gly Ile Thr Val Phe Glu Asp Tyr Leu Tyr Ala Thr Asn Ser
      180      185      190
Asp Ser Tyr Asn Ile Val Arg Ile Ser Arg Phe Asn Gly Thr Asp Ile
      195      200      205
His Ser Leu Ile Lys Ile Glu Asn Ala Trp Gly Ile Arg Ile Tyr Gln
      210      215      220
Lys Arg Thr Gln Pro Thr Val Arg Ser His Ala Cys Glu Val Asp Pro
      225      230      235      240
Tyr Gly Met Pro Gly Gly Cys Ser His Ile Cys Leu Leu Ser Ser Ser
      245      250      255
Tyr Thr Lys
      259

```

```

<210> 968
<211> 161
<212> Amino acid
<213> Homo sapiens

```

```

      <400> 968
Ser Ser Gly Asn Pro Gln Pro Gly Asp Ser Ser Gly Gly Gly Ala Gly
      1      5      10      15
Gly Gly Leu Pro Ser Pro Gly Glu Gln Glu Leu Ser Arg Arg Leu Gln
      20      25      30
Arg Leu Tyr Pro Ala Val Asn Gln Gln Glu Thr Pro Leu Pro Arg Ser
      35      40      45
Trp Ser Pro Lys Asp Lys Tyr Asn Tyr Ile Gly Leu Ser Gln Gly Asn
      50      55      60
Leu Arg Val His Tyr Lys Gly His Gly Lys Asn His Lys Asp Ala Ala
      65      70      75      80
Ser Val Arg Ala Thr His Pro Ile Pro Ala Cys Gly Ile Tyr Tyr
      85      90      95
Phe Glu Val Lys Ile Val Ser Lys Gly Arg Asp Gly Tyr Met Gly Ile
      100      105      110
Gly Leu Ser Ala Gln Gly Val Asn Met Asn Arg Leu Pro Gly Trp Asp
      115      120      125
Lys His Ser Tyr Gly Tyr His Gly Asp Asp Gly His Ser Phe Cys Ser
      130      135      140
Ser Gly Thr Gly Gln Pro Tyr Gly Pro Thr Phe Thr Thr Gly Asp Val
      145      150      155      160
Ile

```

161

<210> 969
 <211> 76
 <212> Amino acid
 <213> Homo sapiens

<400> 969
 Phe Phe Phe Phe Lys Met Gly Ser Arg Ser Val Thr Gln Ala Gly Val
 1 5 10 15
 Gln Trp Cys Asp Val Ser Ser Leu Gln Ala Pro Pro Pro Arg Phe Thr
 20 25 30
 Leu Phe Cys Leu Ser Leu Pro Ser Ser Trp Asp Tyr Arg Cys Val Pro
 35 40 45
 Pro Cys Pro Ala Asn Phe Phe Val Phe Leu Val Glu Thr Gly Phe His
 50 55 60
 Arg Val Ser Gln Tyr Gly Leu Asp Leu Leu Thr Ser
 65 70 75 76

<210> 970
 <211> 267
 <212> Amino acid
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(267)
 <223> X = any amino acid or stop code

<400> 970
 Gln Leu Ser Leu Ala Arg Gly Lys Val Phe Leu Cys Ala Leu Ser Phe
 1 5 10 15
 Val Tyr Phe Ala Lys Ala Leu Ala Glu Gly Tyr Leu Lys Ser Thr Ile
 20 25 30
 Thr Gln Ile Glu Arg Arg Val Asp Ile Pro Ser Ser Leu Val Gly Val
 35 40 45
 Ile Asp Gly Ser Phe Glu Ile Gly Asn Leu Leu Val Ile Thr Phe Val
 50 55 60
 Ser Tyr Phe Gly Ala Lys Leu His Arg Pro Lys Ile Ile Gly Ala Gly
 65 70 75 80
 Cys Val Ile Met Gly Val Gly Thr Leu Leu Ile Ala Met Pro Gln Phe
 85 90 95
 Phe Met Glu Gln Tyr Lys Tyr Glu Arg Tyr Ser Pro Ser Ser Asn Ser
 100 105 110
 Thr Leu Ser Ile Ser Pro Cys Leu Leu Glu Ser Ser Ser Gln Leu Pro
 115 120 125
 Val Ser Val Met Glu Lys Ser Lys Ser Lys Ile Ser Asn Glu Cys Glu
 130 135 140
 Val Asp Thr Ser Ser Ser Met Trp Ile Tyr Val Phe Leu Gly Asn Leu
 145 150 155 160
 Leu Arg Gly Ile Gly Glu Thr Pro Ile Gln Pro Leu Gly Ile Ala Tyr
 165 170 175
 Leu Asp Asp Phe Ala Ser Glu Asp Asn Ala Ala Phe Tyr Ile Gly Cys
 180 185 190

Val Gln Thr Val Ala Ile Ile Gly Pro Ile Phe Gly Phe Leu Leu Gly
 195 200 205
 Ser Leu Cys Ala Lys Leu Tyr Val Asp Ile Gly Phe Val Asn Leu Asp
 210 215 220
 His Phe Xaa Val Ser Ala Gln Leu Gly Thr Arg Lys Gly Val Leu Val
 225 230 235 240
 Cys Leu Val Phe Cys Leu Leu Cys Gln Ser Ile Gly Arg Arg Leu Ser
 245 250 255
 Glu Glu His His Ser Asp Arg Glu Lys Gly
 260 265 267

<210> 971
 <211> 282
 <212> Amino acid
 <213> Homo sapiens

<400> 971
 Gln Pro Ala Gly Arg Val Glu Ala Phe Cys Lys Phe His Met Trp Ala
 1 5 10 15
 Glu Gly Met Thr Ser Leu Met Lys Ala Leu Asp Leu Thr Tyr Pro
 20 25 30
 Ile Thr Ser Met Phe Ser Gly Ala Gly Phe Asn Ser Ser Ile Phe Ser
 35 40 45
 Val Phe Lys Asp Gln Gln Ile Glu Asp Leu Trp Ile Pro Tyr Phe Ala
 50 55 60
 Ile Thr Thr Asp Ile Thr Ala Ser Ala Met Arg Val His Thr Asp Gly
 65 70 75 80
 Ser Leu Trp Arg Tyr Val Arg Ala Ser Met Ser Leu Ser Gly Tyr Met
 85 90 95
 Pro Pro Leu Cys Asp Pro Lys Asp Gly His Leu Leu Met Asp Gly Gly
 100 105 110
 Tyr Ile Asn Asn Leu Pro Ala Asp Val Ala Arg Ser Met Gly Ala Lys
 115 120 125
 Val Val Ile Ala Ile Asp Val Gly Ser Arg Asp Glu Thr Asp Leu Thr
 130 135 140
 Asn Tyr Gly Asp Ala Leu Ser Gly Trp Trp Leu Leu Trp Lys Arg Trp
 145 150 155 160
 Asn Pro Leu Ala Thr Lys Val Lys Val Leu Asn Met Ala Glu Ile Gln
 165 170 175
 Thr Arg Leu Ala Tyr Val Cys Cys Val Arg Gln Leu Glu Val Val Lys
 180 185 190
 Ser Ser Asp Tyr Cys Glu Tyr Leu Arg Pro Pro Ile Asp Ser Tyr Ser
 195 200 205
 Thr Leu Asp Phe Gly Lys Phe Asn Glu Ile Cys Glu Val Gly Tyr Gln
 210 215 220
 His Gly Arg Thr Val Phe Asp Ile Trp Gly Arg Ser Gly Val Leu Glu
 225 230 235 240
 Lys Met Leu Arg Asp Gln Gln Gly Pro Ser Lys Lys Pro Ala Ser Ala
 245 250 255
 Val Leu Thr Cys Pro Asn Ala Ser Phe Thr Asp Leu Ala Glu Ile Val
 260 265 270
 Ser Arg Ile Glu Pro Ala Lys Pro Ala Met
 275 280 282

<210> 972
 <211> 167
 <212> Amino acid
 <213> Homo sapiens

<400> 972
 Leu Trp Val Ile Met Phe Val Ser Tyr Leu Ile Leu Thr Leu Leu His
 1 5 10 15
 Val Gln Thr Ala Val Leu Ala Arg Pro Gly Gly Glu Ser Ile Gly Cys
 20 25 30
 Asp Asp Tyr Leu Gly Ser Asp Lys Val Val Asp Lys Cys Gly Val Cys
 35 40 45
 Gly Gly Asp Asn Thr Gly Cys Gln Val Val Ser Gly Val Phe Lys His
 50 55 60
 Ala Leu Thr Ser Leu Gly Tyr His Arg Val Val Glu Ile Pro Glu Gly
 65 70 75 80
 Ala Thr Lys Ile Asn Ile Thr Glu Met Tyr Lys Ser Asn Asn Tyr Leu
 85 90 95
 Ala Leu Arg Ser Arg Ser Gly Arg Ser Ile Ile Asn Gly Asn Trp Ala
 100 105 110
 Ile Asp Arg Pro Gly Lys Tyr Glu Gly Gly Gly Thr Met Phe Thr Tyr
 115 120 125
 Lys Arg Pro Asn Glu Ile Ser Ser Thr Ala Gly Glu Ser Phe Leu Ala
 130 135 140
 Glu Gly Pro Thr Asn Glu Ile Leu Asp Val Tyr Val Ser Leu Asp Val
 145 150 155 160
 Ser Gly Leu Phe Phe Gly Phe
 165 167

<210> 973
 <211> 140
 <212>Amino acid
 <213> Homo sapiens

<400> 973
 Ile Ser Gly Gly Thr Arg Ser Ala Gly Pro Leu Arg Arg Asn Tyr Asn
 1 5 10 15
 Phe Ile Ala Ala Val Val Glu Lys Val Ala Pro Ser Val Val His Val
 20 25 30
 Gln Leu Trp Gly Arg Asn Gln Gln Trp Ile Glu Val Val Leu Gln Asn
 35 40 45
 Gly Ala Arg Tyr Glu Ala Val Val Lys Asp Ile Asp Leu Lys Leu Asp
 50 55 60
 Leu Ala Val Ile Lys Ile Glu Ser Asn Ala Glu Leu Pro Val Leu Met
 65 70 75 80
 Leu Gly Arg Ser Ser Asp Leu Arg Ala Gly Glu Phe Val Val Ala Leu
 85 90 95
 Gly Ser Pro Phe Ser Leu Gln Asn Thr Ala Thr Ala Gly Ile Val Ser
 100 105 110
 Thr Lys Gln Arg Gly Gly Lys Glu Leu Gly Met Lys Asp Ser Asp Met
 115 120 125
 Asp Tyr Val Gln Ile Asp Ala Thr Ile Asn Tyr Gly
 130 135 140

<210> 974
 <211> 286
 <212>Amino acid
 <213> Homo sapiens

<400> 974

Pro	Arg	Val	Arg	Glu	Leu	Lys	Glu	Ile	Leu	Asp	Arg	Lys	Gly	His	Phe
1				5					10					15	
Ser	Glu	Asn	Glu	Thr	Arg	Trp	Ile	Ile	Gln	Ser	Leu	Ala	Ser	Ala	Ile
			20				25					30			
Ala	Tyr	Leu	His	Asn	Asn	Asp	Ile	Val	His	Arg	Asp	Leu	Lys	Leu	Glu
	35					40					45				
Asn	Ile	Met	Val	Lys	Ser	Ser	Leu	Ile	Asp	Asp	Asn	Asn	Glu	Ile	Asn
	50					55					60				
Leu	Asn	Ile	Lys	Val	Thr	Asp	Phe	Gly	Leu	Ala	Val	Lys	Lys	Gln	Ser
	65				70					75				80	
Arg	Ser	Glu	Ala	Met	Leu	Gln	Ala	Thr	Cys	Gly	Thr	Pro	Ile	Tyr	Met
			85						90					95	
Ala	Pro	Glu	Val	Ile	Ser	Ala	His	Asp	Tyr	Ser	Gln	Gln	Cys	Asp	Ile
		100						105					110		
Trp	Ser	Ile	Gly	Val	Val	Met	Tyr	Met	Leu	Leu	Arg	Gly	Glu	Pro	Pro
	115					120						125			
Phe	Leu	Ala	Ser	Ser	Glu	Glu	Lys	Leu	Phe	Glu	Leu	Ile	Arg	Lys	Gly
	130				135					140					
Glu	Leu	His	Phe	Glu	Asn	Ala	Val	Trp	Asn	Ser	Ile	Ser	Asp	Cys	Ala
	145				150					155				160	
Lys	Ser	Val	Leu	Lys	Gln	Leu	Met	Lys	Val	Asp	Pro	Ala	His	Arg	Ile
			165					170						175	
Thr	Ala	Lys	Glu	Leu	Leu	Asp	Asn	Gln	Trp	Leu	Thr	Gly	Asn	Lys	Leu
		180						185					190		
Ser	Ser	Val	Arg	Pro	Thr	Asn	Val	Leu	Glu	Met	Met	Lys	Glu	Trp	Lys
		195				200						205			
Asn	Asn	Pro	Glu	Ser	Val	Glu	Glu	Asn	Thr	Thr	Glu	Glu	Lys	Asn	Lys
	210				215						220				
Pro	Ser	Thr	Glu	Glu	Lys	Leu	Lys	Ser	Tyr	Gln	Pro	Trp	Gly	Asn	Val
	225				230					235				240	
Pro	Glu	Thr	Asn	Tyr	Thr	Ser	Asp	Glu	Glu	Glu	Glu	Lys	Gln	Val	Gly
			245						250					255	
Arg	Ile	Ile	Ala	Ala	Phe	Leu	Pro	Ser	Val	Lys	Tyr	Pro	His	His	Thr
		260						265					270		
Trp	Asn	Ile	Phe	Leu	Gln	Ile	Cys	Leu	Phe	Val	Val	Ser	Leu		
	275						280					285	286		

<210> 975

<211> 155

<212> Amino acid

<213> Homo sapiens

<400> 975

Leu	Ser	Ile	Ser	Val	Ser	Asp	Val	Ser	Leu	Ser	Asp	Glu	Gly	Gln	Tyr
1				5					10					15	
Thr	Cys	Ser	Leu	Phe	Thr	Met	Pro	Val	Lys	Thr	Ser	Lys	Ala	Tyr	Leu
			20					25				30			
Thr	Val	Leu	Gly	Val	Pro	Glu	Lys	Pro	Gln	Ile	Ser	Gly	Phe	Ser	Ser
		35					40					45			
Pro	Val	Met	Glu	Gly	Asp	Leu	Met	Gln	Leu	Thr	Cys	Lys	Thr	Ser	Gly
	50					55					60				
Ser	Lys	Pro	Ala	Ala	Asp	Ile	Arg	Trp	Phe	Lys	Asn	Asp	Lys	Glu	Ile
	65					70				75				80	

Lys Asp Val Lys Tyr Leu Lys Glu Glu Asp Ala Asn Arg Lys Thr Phe
 85 90 95
 Thr Val Ser Ser Thr Leu Asp Phe Arg Val Asp Arg Ser Asp Asp Gly
 100 105 110
 Val Ala Val Ile Cys Arg Val Asp His Glu Ser Leu Asn Ala Thr Pro
 115 120 125
 Gln Val Ala Met Gln Val Leu Glu Met His Tyr Thr Pro Ser Val Lys
 130 135 140
 Ile Ile Pro Ser Thr Pro Phe Pro Gln Glu Gly
 145 150 155

<210> 976
 <211> 137
 <212> Amino acid
 <213> Homo sapiens

<400> 976
 Tyr Asn Gln Lys Val Asp Leu Phe Ser Leu Gly Ile Ile Phe Phe Glu
 1 5 10 15
 Met Ser Tyr His Pro Met Val Thr Ala Ser Glu Arg Ile Phe Val Leu
 20 25 30
 Asn Gln Leu Arg Asp Pro Thr Ser Pro Lys Phe Pro Glu Asp Phe Asp
 35 40 45
 Asp Gly Glu His Ala Lys Gln Lys Ser Val Ile Ser Trp Leu Leu Asn
 50 55 60
 His Asp Pro Ala Lys Arg Pro Thr Ala Thr Glu Leu Leu Lys Ser Glu
 65 70 75 80
 Leu Leu Pro Pro Pro Gln Met Glu Glu Ser Glu Leu His Glu Val Leu
 85 90 95
 His His Thr Leu Thr Asn Val Asp Gly Lys Ala Tyr Arg Thr Ile Asp
 100 105 110
 Gly Pro Arg Ser Phe Arg Gln Arg Ile Ser Pro Ala Ile Ala Tyr Thr
 115 120 125
 Tyr Asp Ser Asp Ile Leu Lys Gly Asn
 130 135 137

<210> 977
 <211> 246
 <212> Amino acid
 <213> Homo sapiens

<400> 977
 Asp Gln Asp Tyr Lys Tyr Asp Ser Thr Ser Asp Asp Ser Asn Phe Leu
 1 5 10 15
 Asn Pro Pro Arg Gly Trp Asp His Thr Ala Pro Gly His Arg Thr Phe
 20 25 30
 Glu Thr Lys Asp Gln Pro Glu Tyr Asp Ser Thr Asp Gly Glu Gly Asp
 35 40 45
 Trp Ser Leu Trp Ser Val Cys Ser Val Thr Cys Gly Asn Gly Asn Gln
 50 55 60
 Lys Arg Thr Arg Ser Cys Gly Tyr Ala Cys Thr Ala Thr Glu Ser Arg
 65 70 75 80
 Thr Cys Asp Arg Pro Asn Cys Pro Gly Ile Glu Asp Thr Phe Arg Thr
 85 90 95

```

Ala Ala Thr Glu Val Ser Leu Leu Ala Gly Ser Glu Glu Phe Asn Ala
      100      105      110
Thr Lys Leu Phe Glu Val Asp Thr Asp Ser Cys Glu Arg Trp Met Ser
      115      120      125
Cys Lys Ser Glu Phe Leu Lys Lys Tyr Met His Lys Val Met Asn Asp
      130      135      140
Leu Pro Ser Cys Pro Cys Ser Tyr Pro Thr Glu Val Ala Tyr Ser Thr
      145      150      155      160
Ala Asp Ile Phe Asp Arg Ile Lys Arg Lys Asp Phe Arg Trp Lys Asp
      165      170      175
Ala Ser Gly Pro Lys Glu Lys Leu Glu Ile Tyr Lys Pro Thr Ala Arg
      180      185      190
Tyr Cys Ile Arg Ser Met Leu Ser Leu Glu Ser Thr Thr Leu Ala Ala
      195      200      205
Gln His Cys Cys Tyr Gly Asp Asn Met Gln Leu Ile Thr Arg Gly Lys
      210      215      220
Gly Ala Gly Thr Pro Asn Leu Ile Ser Thr Glu Phe Ser Ala Glu Leu
      225      230      235      240
His Tyr Lys Val Asp Val
      245 246

```

```

<210> 978
<211> 203
<212>Amino acid
<213> Homo sapiens

```

```

<400> 978
Glu Ser Glu Glu Asn Gly Glu Ser Ala Met Asp Ser Thr Val Ala Lys
 1      5      10      15
Glu Gly Thr Asn Val Pro Leu Val Ala Ala Gly Pro Cys Asp Asp Glu
      20      25      30
Gly Ile Val Thr Ser Thr Gly Ala Lys Glu Glu Asp Glu Glu Gly Glu
      35      40      45
Asp Val Val Thr Ser Thr Gly Arg Gly Asn Glu Ile Gly His Ala Ser
      50      55      60
Thr Cys Thr Gly Leu Gly Glu Glu Ser Glu Gly Val Leu Ile Cys Glu
      65      70      75      80
Ser Ala Glu Gly Asp Ser Gln Ile Gly Thr Val Val Glu His Val Glu
      85      90      95
Ala Glu Ala Gly Ala Ala Ile Met Asn Ala Asn Glu Asn Asn Val Asp
      100      105      110
Ser Met Ser Gly Thr Glu Lys Gly Ser Lys Asp Thr Asp Ile Cys Ser
      115      120      125
Ser Ala Lys Gly Ile Val Glu Ser Ser Val Thr Ser Ala Val Ser Gly
      130      135      140
Lys Asp Glu Val Thr Pro Val Pro Gly Gly Cys Glu Gly Pro Met Thr
      145      150      155      160
Ser Ala Ala Ser Asp Gln Ser Asp Ser Gln Leu Glu Lys Val Glu Asp
      165      170      175
Thr Thr Ile Ser Thr Gly Leu Val Gly Gly Ser Tyr Asp Val Leu Val
      180      185      190
Ser Gly Glu Val Pro Glu Cys Glu Val Ala His
      195      200      203

```

```

<210> 979
<211> 94
<212>Amino acid
<213> Homo sapiens

```

<400> 979

```

Val Cys Ile Ile Cys Leu Ile Phe Ser Tyr Tyr Ser Phe Asp Ser Ala
 1           5           10           15
Leu Gln Ser Ala Lys Ser Ser Leu Gly Gly Asn Asp Glu Leu Ser Ala
           20           25           30
Thr Phe Leu Glu Met Lys Gly His Phe Tyr Met Tyr Ala Gly Ser Leu
           35           40           45
Leu Leu Lys Met Gly Gln His Gly Asn Asn Val Gln Trp Arg Ala Leu
           50           55           60
Ser Glu Leu Ala Ala Leu Cys Tyr Leu Ile Ala Phe Gln Val Ser Leu
           65           70           75           80
Pro Leu Gly Ala Ile Asp Ile Ser Arg Ser Leu Asp Val Phe
           85           90           94

```

<210> 980

<211> 226

<212>Amino acid

<213> Homo sapiens

<400> 980

```

Gln His Pro Ser Gln Glu Lys Pro Gln Val Leu Thr Pro Ser Pro Arg
 1           5           10           15
Lys Gln Lys Leu Asn Arg Lys Tyr Arg Ser His His Asp Gln Met Ile
           20           25           30
Cys Lys Cys Leu Ser Leu Ser Ile Ser Tyr Ser Ala Thr Ile Gly Gly
           35           40           45
Leu Thr Thr Ile Ile Gly Thr Ser Thr Ser Leu Ile Phe Leu Glu His
           50           55           60
Phe Asn Asn Gln Tyr Pro Ala Ser Glu Val Val Asn Phe Gly Thr Trp
           65           70           75           80
Phe Leu Phe Ser Phe Pro Ile Ser Leu Ile Met Leu Val Val Ser Trp
           85           90           95
Phe Trp Met His Trp Leu Phe Leu Gly Cys Asn Phe Lys Glu Thr Cys
           100          105          110
Ser Leu Ser Lys Lys Lys Lys Thr Lys Arg Glu Gln Leu Ser Glu Lys
           115          120          125
Arg Ile Gln Glu Glu Tyr Glu Lys Leu Gly Asp Ile Ser Tyr Pro Glu
           130          135          140
Met Val Thr Gly Phe Phe Phe Ile Leu Met Thr Val Leu Trp Phe Thr
           145          150          155          160
Arg Glu Pro Gly Phe Val Pro Gly Trp Asp Ser Phe Phe Glu Lys Lys
           165          170          175
Gly Tyr Arg Thr Asp Ala Thr Val Ser Val Phe Leu Gly Phe Leu Leu
           180          185          190
Phe Leu Ile Pro Ala Lys Lys Pro Cys Phe Gly Lys Lys Asn Asp Gly
           195          200          205
Glu Asn Gln Glu His Ser Leu Gly Thr Glu Pro Ile Ile Thr Trp Lys
           210          215          220
Asp Phe
225 226

```

<210> 981

<211> 163

<212>Amino acid
<213> Homo sapiens

<400> 981
 Leu Glu Arg Glu Gly Asp Lys Gly Thr Pro Val Leu Arg Gly Phe Ser
 1 5 10 15
 Ser Val Ser Gly Ser Trp Ser Arg Arg Met Pro Pro Phe Leu Leu Leu
 20 25 30
 Thr Cys Leu Phe Ile Thr Gly Thr Ser Val Ser Pro Val Ala Leu Asp
 35 40 45
 Pro Cys Ser Ala Tyr Ile Ser Leu Asn Glu Pro Trp Arg Asn Thr Asp
 50 55 60
 His Gln Leu Asp Glu Ser Gln Gly Pro Pro Leu Cys Asp Asn His Val
 65 70 75 80
 Asn Gly Glu Trp Tyr His Phe Thr Gly Met Ala Gly Asp Ala Met Pro
 85 90 95
 Thr Phe Cys Ile Pro Glu Asn His Cys Gly Thr His Ala Pro Val Trp
 100 105 110
 Leu Asn Gly Ser His Pro Leu Glu Gly Asp Gly Ile Val Gln Arg Gln
 115 120 125
 Ala Cys Ala Ser Phe Asn Gly Asn Cys Cys Leu Trp Asn Thr Thr Val
 130 135 140
 Glu Val Lys Ala Cys Pro Gly Gly Tyr Tyr Val Tyr Arg Leu Thr Lys
 145 150 155 160
 Pro Ser Val
 163

<210> 982
 <211> 327
 <212>Amino acid
 <213> Homo sapiens

<400> 982
 Cys Gly Arg Thr Met Ser Asp Ile Arg His Ser Leu Leu Arg Arg Asp
 1 5 10 15
 Ala Leu Ser Ala Ala Lys Glu Val Leu Tyr His Leu Asp Ile Tyr Phe
 20 25 30
 Ser Ser Gln Leu Gln Ser Ala Pro Leu Pro Ile Val Asp Lys Gly Pro
 35 40 45
 Val Glu Leu Leu Glu Glu Phe Val Phe Gln Val Pro Lys Glu Arg Ser
 50 55 60
 Ala Gln Pro Lys Arg Leu Asn Ser Leu Gln Glu Leu Gln Leu Leu Glu
 65 70 75 80
 Ile Met Cys Asn Tyr Phe Gln Glu Gln Thr Lys Asp Ser Val Arg Gln
 85 90 95
 Ile Ile Phe Ser Ser Leu Phe Ser Pro Gln Gly Asn Lys Ala Asp Asp
 100 105 110
 Ser Arg Met Ser Leu Leu Gly Lys Leu Val Ser Met Ala Val Ala Val
 115 120 125
 Cys Arg Ile Pro Val Leu Glu Cys Ala Ala Ser Trp Leu Gln Arg Thr
 130 135 140
 Pro Val Val Tyr Cys Val Arg Leu Ala Lys Ala Leu Val Asp Asp Tyr
 145 150 155 160
 Cys Cys Leu Val Pro Gly Ser Ile Gln Thr Leu Lys Gln Ile Phe Ser
 165 170 175

Ala Ser Pro Arg Phe Cys Cys Gln Phe Ile Thr Ser Val Thr Ala Leu
 180 185 190
 Tyr Asp Leu Ser Ser Asp Asp Leu Ile Pro Pro Met Asp Leu Leu Glu
 195 200 205
 Met Ile Val Thr Trp Ile Phe Glu Asp Pro Arg Leu Ile Leu Ile Thr
 210 215 220
 Phe Leu Asn Thr Pro Ile Ala Ala Asn Leu Pro Ile Gly Phe Leu Glu
 225 230 235 240
 Leu Thr Pro Leu Val Gly Leu Ile Arg Trp Cys Val Lys Ala Pro Leu
 245 250 255
 Ala Tyr Lys Arg Lys Lys Lys Pro Pro Leu Ser Asn Gly His Val Ser
 260 265 270
 Asn Lys Val Thr Lys Asp Pro Gly Val Gly Met Asp Arg Asp Ser His
 275 280 285
 Leu Leu Tyr Ser Lys Leu His Leu Ser Val Leu Gln Val Leu Met Thr
 290 295 300
 Leu Gln Leu His Leu Thr Glu Lys Asn Leu Tyr Gly Pro Pro Gly Ala
 305 310 315 320
 Asp Pro Leu Arg Pro His Gly
 325 327

<210> 983
 <211> 110
 <212>Amino acid
 <213> Homo sapiens

<400> 983
 Ser Ala Cys Ser Thr Gly Pro Glu Leu Pro Gly Arg Ala Thr Arg Ser
 1 5 10 15
 Leu Thr Arg Pro Ala Asn Gln Lys Gly Cys Asp Gly Asp Arg Leu Tyr
 20 25 30
 Tyr Asp Gly Cys Ala Met Ile Ala Met Asn Gly Ser Val Phe Ala Gln
 35 40 45
 Gly Ser Gln Phe Ser Leu Asp Asp Val Glu Val Leu Thr Ala Thr Leu
 50 55 60
 Asp Leu Glu Asp Val Arg Ser Tyr Arg Ala Glu Ile Ser Ser Arg Asn
 65 70 75 80
 Leu Ala Val Ser Ala Pro Val Asp Thr Cys Val Gly Cys Ser Ser Lys
 85 90 95
 Thr Trp Lys Val Ala Pro Phe Val Arg Ala Trp Trp Arg Pro
 100 105 110

<210> 984
 <211> 80
 <212>Amino acid
 <213> Homo sapiens

<400> 984
 Ala Pro Leu Ser Arg Leu Cys Phe Pro Gln Val Leu Val Asn Glu Gly
 1 5 10 15
 Gly Gly Phe Asp Arg Ala Ser Gly Ser Phe Val Ala Pro Val Arg Gly
 20 25 30
 Val Tyr Ser Phe Arg Phe His Val Val Lys Val Tyr Asn Arg Gln Thr
 35 40 45

Val Gln Val Thr Ser Ala Leu Ala Pro Ile Pro Gly Ser Gly Gly Trp
 50 55 60
 Gly Gly Gly Arg Arg Gly Ala Gln Leu Thr Ser Gly Trp Thr Leu His
 65 70 75 80

<210> 985
 <211> 235
 <212>Amino acid
 <213> Homo sapiens

<400> 985
 Pro His Ile Ile Gly Ala Glu Asp Asp Asp Phe Gly Thr Glu His Glu
 1 5 10 15
 Gln Ile Asn Gly Gln Cys Ser Cys Phe Gln Ser Ile Glu Leu Leu Lys
 20 25 30
 Ser Arg Pro Ala His Leu Ala Val Phe Leu Arg His Val Val Ser Gln
 35 40 45
 Phe Asp Pro Ala Thr Leu Leu Cys Tyr Leu Tyr Ser Asp Leu Tyr Lys
 50 55 60
 His Thr Asn Ser Lys Glu Thr Arg Arg Ile Phe Leu Glu Phe His Gln
 65 70 75 80
 Phe Phe Leu Asp Arg Ser Ala His Leu Lys Val Ser Val Pro Asp Glu
 85 90 95
 Met Ser Ala Asp Leu Glu Lys Arg Arg Pro Glu Leu Ile Pro Glu Asp
 100 105 110
 Leu His Arg His Tyr Ile Gln Thr Met Gln Glu Arg Val His Pro Glu
 115 120 125
 Val Gln Arg His Leu Glu Asp Phe Arg Gln Lys Arg Ser Met Gly Leu
 130 135 140
 Thr Leu Ala Glu Ser Glu Leu Thr Lys Leu Asp Ala Glu Arg Asp Lys
 145 150 155 160
 Asp Arg Leu Thr Leu Glu Lys Glu Arg Thr Cys Ala Glu Gln Ile Val
 165 170 175
 Ala Lys Ile Glu Glu Val Leu Met Thr Ala Gln Ala Val Glu Glu Asp
 180 185 190
 Lys Ser Ser Thr Met Gln Tyr Val Ile Leu Met Tyr Met Lys His Leu
 195 200 205
 Gly Val Lys Val Lys Glu Pro Arg Asn Leu Glu His Lys Arg Gly Arg
 210 215 220
 Ile Gly Phe Leu Pro Lys Ile Lys Gln Ser Met
 225 230 235

<210> 986
 <211> 140
 <212>Amino acid
 <213> Homo sapiens

<400> 986
 Ser Pro Gly Thr Gly Arg Gly Pro Gly Pro Thr Ser Phe Val Cys Leu
 1 5 10 15
 Pro Thr Pro Gln Cys Pro Phe Ile Asp Asp Phe Ile Leu Ala Leu His
 20 25 30

```

Arg Lys Ile Lys Asn Glu Pro Val Val Phe Pro Glu Gly Pro Glu Ile
   35           40           45
Ser Glu Glu Leu Lys Asp Leu Ile Leu Lys Met Leu Asp Lys Asn Pro
   50           55           60
Glu Thr Arg Ile Gly Val Pro Asp Ile Lys Leu His Pro Trp Val Thr
   65           70           75           80
Lys Asn Gly Glu Glu Pro Leu Pro Ser Glu Glu Glu His Cys Ser Val
           85           90           95
Val Glu Val Thr Glu Glu Glu Val Lys Asn Ser Val Arg Leu Ile Pro
   100           105           110
Ser Trp Thr Thr Val Ile Leu Val Lys Ser Met Leu Arg Lys Arg Ser
   115           120           125
Phe Gly Asn Pro Phe Glu Pro Gln Ala Arg Met Ala
   130           135           140

```

<210> 987

<211> 242

<212>Amino acid

<213> Homo sapiens

<400> 987

```

His Ala Ser Gly Ile Lys Ile Asp Lys Thr Ser Asp Gly Pro Lys Leu
   1           5           10           15
Phe Leu Thr Glu Glu Asp Gln Lys Lys Leu His Asp Phe Glu Glu Gln
           20           25           30
Cys Val Glu Met Tyr Phe Asn Glu Lys Asp Asp Lys Phe His Ser Gly
   35           40           45
Ser Glu Glu Arg Ile Arg Val Thr Phe Glu Arg Val Glu Gln Met Cys
   50           55           60
Ile Gln Ile Lys Glu Val Gly Asp Arg Val Asn Tyr Ile Lys Arg Ser
   65           70           75           80
Leu Gln Ser Leu Asp Ser Gln Ile Gly His Leu Gln Asp Leu Ser Ala
           85           90           95
Leu Thr Val Asp Thr Leu Lys Thr Leu Thr Ala Gln Lys Ala Ser Glu
   100           105           110
Ala Ser Lys Val His Asn Glu Ile Thr Arg Glu Leu Ser Ile Ser Lys
   115           120           125
His Leu Ala Gln Asn Leu Ile Asp Asp Gly Pro Val Arg Pro Ser Val
   130           135           140
Trp Lys Lys His Gly Val Val Asn Thr Leu Ser Ser Ser Leu Pro Gln
   145           150           155           160
Gly Asp Leu Glu Ser Asn Asn Pro Phe His Cys Asn Ile Leu Met Lys
           165           170           175
Asp Asp Lys Asp Pro Gln Cys Asn Ile Phe Gly Gln Asp Leu Pro Ala
   180           185           190
Val Pro Gln Arg Lys Glu Phe Asn Phe Pro Glu Ala Gly Ser Ser Ser
   195           200           205
Gly Ala Leu Phe Pro Ser Ala Val Ser Pro Pro Glu Leu Arg Gln Arg
   210           215           220
Leu His Gly Val Glu Leu Lys Ile Phe Asn Lys Lys Gln Lys Lys
   225           230           235           240
Arg Ala
   242

```

<210> 988

<211> 154

<212>Amino acid

<213> Homo sapiens

<400> 988

```

Cys Cys Arg Trp Ile Asp Cys Phe Ala Leu Tyr Asp Gln Gln Glu Glu
 1           5           10           15
Leu Val Arg His Ile Glu Lys Val His Ile Asp Gln Arg Lys Gly Glu
          20           25           30
Asp Phe Thr Cys Phe Trp Ala Gly Cys Pro Arg Arg Tyr Lys Pro Phe
          35           40           45
Asn Ala Arg Tyr Lys Leu Leu Ile His Met Arg Val His Ser Gly Glu
          50           55           60
Lys Pro Asn Lys Cys Thr Phe Glu Gly Cys Glu Lys Ala Phe Ser Arg
          65           70           75           80
Leu Glu Asn Leu Lys Ile His Leu Arg Ser His Thr Gly Glu Lys Pro
          85           90           95
Tyr Leu Cys Gln His Pro Gly Cys Gln Lys Ala Phe Ser Asn Ser Ser
          100          105          110
Asp Arg Ala Lys His Gln Arg Thr His Leu Asp Thr Lys Pro Tyr Ala
          115          120          125
Cys Gln Ile Pro Gly Cys Thr Lys Arg Tyr Thr Asp Pro Ser Ser Leu
          130          135          140
Arg Lys His Val Lys Ala His Ser Ser Lys
          145          150          154

```

<210> 989

<211> 65

<212>Amino acid

<213> Homo sapiens

<400> 989

```

Leu Pro Leu Leu Trp Thr Leu Ser Asp Phe Gly Gly Thr Met Asp Gln
 1           5           10           15
Ser Gly Met Glu Ile Pro Val Thr Leu Ile Ile Lys Ala Pro Asn Gln
          20           25           30
Lys Tyr Ser Asp Gln Thr Ile Ser Cys Phe Leu Asn Trp Thr Val Gly
          35           40           45
Lys Leu Lys Thr His Leu Ser Asn Val Tyr Pro Ser Lys Pro Val Ser
          50           55           60
Val
65

```

<210> 990

<211> 297

<212>Amino acid

<213> Homo sapiens

<400> 990

```

Ala Gly Thr Arg Met Cys Val Val Ala Ala Ala Glu Glu Leu Val Cys
 1           5           10           15
Gly Ala Arg Gly Leu Trp Met Arg Arg Thr Arg Arg Pro Arg Phe Val
          20           25           30

```

```

Leu Met Asn Lys Met Asp Asp Leu Asn Leu His Tyr Arg Phe Leu Asn
  35          40          45
Trp Arg Arg Arg Ile Arg Glu Ile Arg Glu Val Arg Ala Phe Arg Tyr
  50          55          60
Gln Glu Arg Phe Lys His Ile Leu Val Asp Gly Asp Thr Leu Ser Tyr
  65          70          75          80
His Gly Asn Ser Gly Glu Val Gly Cys Tyr Val Ala Ser Arg Pro Leu
          85          90          95
Thr Lys Asp Ser Asn Tyr Phe Glu Val Ser Ile Val Asp Ser Gly Val
          100          105          110
Arg Gly Thr Ile Ala Val Gly Leu Val Pro Gln Tyr Tyr Ser Leu Asp
          115          120          125
His Gln Pro Gly Trp Leu Pro Asp Ser Val Ala Tyr His Ala Asp Asp
          130          135          140
Gly Lys Leu Tyr Asn Gly Arg Ala Lys Gly Arg Gln Phe Gly Ser Lys
          145          150          155          160
Cys Asn Ser Gly Asp Arg Ile Gly Cys Gly Ile Glu Pro Val Ser Phe
          165          170          175
Asp Val Gln Thr Ala Gln Ile Phe Phe Thr Lys Asn Gly Lys Arg Val
          180          185          190
Gly Ser Thr Ile Met Pro Met Ser Pro Asp Gly Leu Phe Pro Ala Val
          195          200          205
Gly Met His Ser Leu Gly Glu Glu Val Arg Leu His Leu Asn Ala Glu
          210          215          220
Leu Gly Arg Glu Asp Asp Ser Val Met Met Val Asp Ser Tyr Glu Asp
          225          230          235          240
Glu Trp Gly Arg Leu His Asp Val Arg Val Cys Gly Thr Leu Leu Glu
          245          250          255
Tyr Leu Gly Lys Gly Lys Ser Ile Val Asp Val Gly Leu Ala Gln Ala
          260          265          270
Arg His Pro Leu Ser Thr Arg Ser His Tyr Phe Glu Val Glu Ile Val
          275          280          285
Asp Pro Gly Glu Lys Cys Tyr Ile Ala
          290          295          297

```

<210> 991
 <211> 207
 <212> Amino acid
 <213> Homo sapiens

```

<400> 991
Gln Gln Ala Glu Glu His Leu Ala Ala Tyr Ser Val Ser Asp Ser Asp
  1          5          10          15
Ser Gly Lys Asp Pro Ser Met Glu Cys Cys Arg Arg Ala Thr Pro Gly
          20          25          30
Thr Leu Leu Leu Phe Leu Ala Phe Leu Leu Leu Ser Ser Arg Thr Ala
          35          40          45
Arg Ser Glu Glu Asp Arg Asp Gly Leu Trp Asp Ala Trp Gly Pro Trp
          50          55          60
Ser Glu Cys Ser Arg Thr Cys Gly Gly Gly Ala Ser Tyr Ser Leu Arg
          65          70          75          80
Arg Cys Leu Ser Ser Lys Ser Cys Glu Gly Arg Asn Ile Arg Tyr Arg
          85          90          95
Thr Cys Ser Asn Val Asp Cys Pro Pro Glu Ala Gly Asp Phe Arg Ala
          100          105          110
Gln Gln Cys Ser Ala His Asn Asp Val Lys His His Gly Gln Phe Tyr
          115          120          125
Glu Trp Leu Pro Val Ser Asn Asp Pro Asp Asn Pro Cys Ser Leu Lys
          130          135          140

```

Cys Gln Ala Lys Gly Thr Thr Leu Val Val Glu Leu Ala Pro Lys Val
 145 150 155 160
 Leu Asp Gly Thr Arg Cys Tyr Thr Glu Ser Leu Asp Met Cys Ile Ser
 165 170 175
 Gly Leu Cys Gln Val Ser Ala Asp Leu Phe Ser Phe Asn Leu Ser Arg
 180 185 190
 Gly Phe Gln Cys Leu Cys Val Asn Gly Leu His Ser Leu Thr Leu
 195 200 205 207

<210> 992
 <211> 184
 <212> Amino acid
 <213> Homo sapiens

<400> 992
 Arg Leu Leu Arg Gln Glu Leu Val Val Leu Cys His Leu His His Pro
 1 5 10 15
 Ser Leu Ile Ser Leu Leu Ala Ala Gly Ile Arg Pro Arg Met Leu Val
 20 25 30
 Met Glu Leu Ala Ser Lys Gly Ser Leu Asp Arg Leu Leu Gln Gln Asp
 35 40 45
 Lys Ala Ser Leu Thr Arg Thr Leu Gln His Arg Ile Ala Leu His Val
 50 55 60
 Ala Asp Gly Leu Arg Tyr Leu His Ser Ala Met Ile Ile Tyr Arg Asp
 65 70 75 80
 Leu Lys Pro His Asn Val Leu Leu Phe Thr Leu Tyr Pro Asn Ala Ala
 85 90 95
 Ile Ile Ala Lys Ile Ala Asp Tyr Gly Ile Ala Gln Tyr Cys Cys Arg
 100 105 110
 Met Gly Ile Lys Thr Ser Glu Gly Thr Pro Gly Phe Arg Ala Pro Glu
 115 120 125
 Val Ala Arg Gly Asn Val Ile Tyr Asn Gln Gln Ala Asp Val Tyr Ser
 130 135 140
 Phe Gly Leu Leu Leu Tyr Asp Ile Leu Thr Thr Gly Gly Arg Ile Val
 145 150 155 160
 Glu Gly Leu Lys Phe Pro Asn Glu Phe Asp Glu Leu Glu Ile Gln Gly
 165 170 175
 Lys Leu Pro Asp Pro Val Lys Glu
 180 184

<210> 993
 <211> 144
 <212> Amino acid
 <213> Homo sapiens

<400> 993
 Lys Ala Ser Asn Ser Thr His Glu Phe Arg Ile Gly Leu Pro Glu Gly
 1 5 10 15
 Trp Glu Ser Glu Lys Lys Ala Val Ile Pro Leu Gly Ile Gly Pro Pro
 20 25 30
 Leu Thr Leu Ile Cys Leu Gly Val Leu Gly Gly Ile Leu Ile Tyr Gly
 35 40 45
 Arg Lys Gly Phe Gln Thr Ala His Phe Tyr Leu Lys Asp Ser Pro Ser
 50 55 60

```

Pro Lys Val Ile Ser Thr Pro Pro Pro Pro Ile Phe Pro Ile Ser Lys
 65              70              75              80
Glu Val Gly Pro Ile Pro Ile Lys His Phe Pro Lys His Val Ala Asn
              85              90              95
Leu His Ala Ser Arg Gly Phe Thr Glu Lys Phe Glu Thr Leu Lys Lys
      100              105              110
Phe Tyr Gln Glu Gly Gln Ser Cys Thr Val Asp Leu Gly Ile Thr Ala
      115              120              125
Asn Ser Ser Asn His Pro Asp Asn Arg His Arg Asn Arg Ser Leu Ile
      130              135              140              144

```

<210> 994
 <211> 147
 <212> Amino acid
 <213> Homo sapiens

```

<400> 994
Ser Phe Pro Asp Arg Thr Ala Ser Leu Val Leu Leu Ser Val Pro Val
 1              5              10              15
Gly Gln Ala Gly Met Gln Gln Arg Gly Leu Ala Ile Val Ala Leu Ala
      20              25              30
Val Cys Ala Ala Leu His Ala Ser Pro Ala Ile Leu Pro Ile Ala Ser
      35              40              45
Ser Cys Cys Thr Glu Val Ser His His Ile Ser Arg Arg Leu Leu Glu
      50              55              60
Arg Val Asn Met Cys Arg Ile Gln Arg Ala Asp Gly Asp Cys Asp Leu
      65              70              75              80
Ala Ala Val Ile Leu His Val Lys Arg Arg Arg Ile Cys Val Ser Pro
      85              90              95
His Asn His Thr Val Lys Gln Trp Met Lys Val Gln Ala Ala Lys Lys
      100              105              110
Asn Gly Lys Gly Asn Val Cys His Arg Lys Lys His His Gly Lys Arg
      115              120              125
Asn Ser Asn Arg Ala His Gln Gly Lys His Glu Thr Tyr Gly His Lys
      130              135              140
Thr Pro Tyr
145      147

```

<210> 995
 <211> 245
 <212> Amino acid
 <213> Homo sapiens

```

<400> 995
Phe Glu Gln Pro Gly Asn Pro Gly Asp Pro Arg Val Arg Thr Pro Pro
 1              5              10              15
Pro Trp Gly Pro His Phe Phe Ala Leu Ile Pro Ser Ser Pro Lys Glu
      20              25              30
Val Pro Ala Thr Pro Ser Ser Arg Arg Asp Pro Ile Ala Pro Thr Ala
      35              40              45
Thr Leu Leu Ser Lys Lys Thr Pro Ala Thr Leu Ala Pro Lys Glu Ala
      50              55              60

```

```

Leu Ile Pro Pro Ala Met Thr Val Pro Ser Pro Lys Lys Thr Pro Ala
65          70          75          80
Ile Pro Thr Pro Lys Glu Ala Pro Ala Thr Pro Ser Ser Lys Glu Ala
85          90          95
Ser Ser Pro Pro Ala Val Thr Pro Ser Thr Tyr Lys Gly Ala Pro Ser
100        105        110
Pro Lys Glu Leu Leu Ile Pro Pro Ala Val Thr Ser Pro Ser Pro Lys
115        120        125
Glu Ala Pro Thr Pro Pro Ala Val Thr Pro Pro Ser Pro Glu Lys Gly
130        135        140
Pro Ala Thr Pro Ala Pro Lys Gly Thr Pro Thr Ser Pro Pro Val Thr
145        150        155        160
Pro Ser Ser Leu Lys Asp Ser Pro Thr Ser Pro Ala Ser Val Thr Cys
165        170        175
Lys Met Gly Ala Thr Val Pro Gln Ala Ser Lys Gly Leu Pro Ala Lys
180        185        190
Lys Gly Pro Thr Ala Leu Lys Glu Val Leu Val Ala Pro Ala Pro Glu
195        200        205
Ser Thr Pro Ile Ile Thr Ala Pro Thr Arg Lys Gly Pro Gln Thr Lys
210        215        220
Lys Ser Ser Ala Thr Ser Pro Pro Ile Cys Pro Asp Pro Ser Ala Lys
225        230        235        240
Asn Gly Ser Lys Gly
245

```

```

<210> 996
<211> 25
<212>Amino acid
<213> Homo sapiens

```

```

<400> 996
Phe Phe Leu Lys Ile Gln Gly Leu Gly Trp Ala Arg Trp Leu Thr Pro
1      5      10      15
Val Ile Pro Val Leu Trp Glu Ala Glu
20      25

```

```

<210> 997
<211> 56
<212>Amino acid
<213> Homo sapiens

```

```

<400> 997
Ala Gly Phe Gly Tyr Gly Leu Pro Ile Ser Arg Leu Tyr Ala Lys Tyr
1      5      10      15
Phe Gln Gly Asp Leu Asn Leu Tyr Ser Leu Ser Gly Tyr Gly Thr Asp
20      25      30
Ala Ile Ile Tyr Leu Lys Val Ser Leu Glu Phe Asn Ser Lys Ile Leu
35      40      45
Phe Leu Lys Pro Leu Leu Leu Leu
50      55      56

```

```

<210> 998
<211> 198

```

<212>Amino acid
<213> Homo sapiens

<400> 998
 Trp Met Arg Ala Pro Met Leu Gln Lys Gln Gln Ala Pro Arg Met Asp
 1 5 10 15
 Thr Pro Pro Pro Glu Glu Arg Leu Glu Lys Gln Asn Glu Lys Leu Asn
 20 25 30
 Asn Gln Glu Glu Glu Thr Glu Phe Lys Glu Leu Asp Gly Leu Arg Glu
 35 40 45
 Ala Leu Ala Asn Leu Arg Gly Leu Ser Glu Glu Glu Arg Ser Glu Lys
 50 55 60
 Ala Met Leu Arg Ser Arg Ile Glu Glu Gln Ser Gln Leu Ile Cys Ile
 65 70 75 80
 Leu Lys Arg Arg Ser Asp Glu Ala Leu Glu Arg Cys Gln Ile Leu Glu
 85 90 95
 Leu Leu Asn Ala Glu Leu Glu Glu Lys Met Met Gln Glu Ala Glu Lys
 100 105 110
 Leu Lys Ala Gln Gly Glu Tyr Ser Arg Lys Leu Glu Glu Arg Phe Met
 115 120 125
 Thr Leu Ala Ala Asn His Glu Leu Met Leu Arg Phe Lys Asp Glu Tyr
 130 135 140
 Lys Ser Glu Asn Ile Lys Leu Arg Glu Glu Asn Glu Lys Leu Arg Leu
 145 150 155 160
 Glu Asn Asn Ser Leu Phe Ser Gln Ala Leu Lys Asp Glu Glu Ala Lys
 165 170 175
 Val Leu Gln Leu Thr Val Arg Cys Glu Ala Leu Thr Gly Glu Leu Glu
 180 185 190
 Thr Leu Lys Glu Arg Cys
 195 198

<210> 999
 <211> 79
 <212>Amino acid
 <213> Homo sapiens

<400> 999
 Asp Pro Gly Ala Ser His Ala Ser Val Gln Val Gln Val Leu Lys Glu
 1 5 10 15
 Gln Leu Phe Ala Gly Arg Met Pro Ser Pro Phe Arg Ser Cys Ala Leu
 20 25 30
 Met Gly Met Cys Gly Ser Arg Ser Ala Asp Asn Leu Ser Cys Pro Ser
 35 40 45
 Pro Leu Asn Val Met Glu Pro Val Ser Phe Phe Pro Leu Lys Ser Leu
 50 55 60
 Gly Lys Gly Met Ile Gln His Phe Arg His Ile Val Ser Leu Val
 65 70 75 79

<210> 1000
 <211> 206
 <212>Amino acid
 <213> Homo sapiens

```

<400> 1000
Val Thr Thr Thr Thr His Ser Val Gly Arg Gly His Glu Leu Gln Leu
 1          5          10          15
Leu Asn Glu Glu Leu Arg Asn Ile Glu Leu Glu Cys Gln Asn Ile Met
      20          25          30
Gln Ala His Arg Leu Gln Lys Val Thr Asp Gln Tyr Gly Asp Ile Trp
      35          40          45
Thr Leu His Asp Gly Gly Phe Arg Asn Tyr Asn Thr Ser Ile Asp Met
      50          55          60
Gln Arg Gly Lys Leu Asp Asp Ile Met Glu His Pro Glu Lys Ser Asp
      65          70          75          80
Lys Asp Ser Ser Ser Ala Tyr Asn Thr Ala Glu Ser Cys Arg Ser Thr
      85          90          95
Pro Leu Thr Val Asp Arg Ser Pro Asp Ser Ser Leu Pro Arg Val Ile
      100          105          110
Asn Leu Thr Asn Lys Lys Asn Leu Arg Ser Thr Met Ala Ala Thr Gln
      115          120          125
Ser Ser Ser Gly Gln Ser Ser Lys Glu Ser Thr Ser Thr Lys Ala Lys
      130          135          140
Thr Thr Glu Gln Gly Cys Ser Ala Glu Ser Lys Glu Lys Val Leu Glu
      145          150          155          160
Gly Ser Lys Leu Pro Asp Gln Glu Lys Ala Val Ser Glu His Ile Pro
      165          170          175
Tyr Leu Ser Pro Tyr His Ser Ser Ser Tyr Arg Tyr Ala Asn Ile Pro
      180          185          190
Ala His Ala Arg His Tyr Gln Ser Tyr Met Gln Leu Ile Gln
      195          200          205 206

```

```

<210> 1001
<211> 138
<212> Amino acid
<213> Homo sapiens

```

```

<400> 1001
Val Trp Gly Cys Leu Ala Thr Val Ser Thr His Lys Lys Ile Gln Gly
 1          5          10          15
Leu Pro Phe Gly Asn Cys Leu Pro Val Ser Asp Gly Pro Phe Asn Asn
      20          25          30
Ser Thr Gly Ile Pro Phe Phe Tyr Met Thr Ala Lys Asp Pro Val Val
      35          40          45
Ala Asp Leu Met Lys Asn Pro Met Ala Ser Leu Met Leu Pro Glu Ser
      50          55          60
Glu Gly Glu Phe Cys Arg Lys Asn Ile Val Asp Pro Glu Asp Pro Arg
      65          70          75          80
Cys Val Gln Leu Thr Leu Thr Gly Gln Met Ile Ala Val Ser Pro Glu
      85          90          95
Glu Val Glu Phe Ala Lys Gln Ala Met Phe Ser Arg His Pro Gly Met
      100          105          110
Arg Lys Trp Pro Arg Gln Tyr Glu Trp Phe Phe Met Lys Met Arg Ile
      115          120          125
Glu His Ile Trp Leu Gln Lys Trp Tyr Gly
      130          135          138

```

```

<210> 1002
<211> 133

```

<212>Amino acid
<213> Homo sapiens

<400> 1002

```

Gln Ala Ala Asn Met Ala Val Ala Arg Val Asp Ala Ala Leu Pro Pro
 1          5          10          15
Gly Glu Gly Ser Val Val Asn Trp Ser Gly Gln Gly Leu Gln Lys Leu
          20          25          30
Gly Pro Asn Leu Pro Cys Glu Ala Asp Ile His Thr Leu Ile Leu Asp
          35          40          45
Lys Asn Gln Ile Ile Lys Leu Glu Asn Leu Glu Lys Cys Lys Arg Leu
          50          55          60
Ile Gln Leu Ser Val Ala Asn Asn Arg Leu Val Arg Met Met Gly Val
          65          70          75          80
Ala Lys Leu Thr Leu Leu Arg Val Leu Asn Leu Pro His Asn Ser Ile
          85          90          95
Gly Cys Val Glu Gly Leu Lys Glu Leu Val His Leu Glu Trp Leu Asn
          100          105          110
Leu Ala Gly Asn Asn Leu Ile Ala Met Glu Gln Ile Asn Ser Cys Thr
          115          120          125
Ala Leu Gln His Leu
          130          133

```

<210> 1003

<211> 276

<212>Amino acid

<213> Homo sapiens

<400> 1003

```

Phe Arg Ala Ala Val Gly Ala Val Pro Glu Gly Ala Trp Lys Asp Thr
 1          5          10          15
Ala Gln Leu His Lys Ser Glu Glu Ala Lys Arg Val Leu Arg Tyr Tyr
          20          25          30
Leu Phe Gln Gly Gln Arg Tyr Ile Trp Ile Glu Thr Gln Gln Ala Phe
          35          40          45
Tyr Gln Val Ser Leu Leu Asp His Gly Arg Ser Cys Asp Asp Val His
          50          55          60
Arg Ser Arg His Gly Leu Ser Leu Gln Asp Gln Met Glu Arg Lys Ala
          65          70          75          80
Ile Tyr Gly Pro Asn Val Ile Ser Ile Pro Val Lys Ser Tyr Pro Gln
          85          90          95
Leu Leu Val Asp Glu Ala Phe Ser Ile Ala Leu Trp Leu Ala Asp His
          100          105          110
Tyr Tyr Trp Tyr Ala Leu Cys Ile Phe Leu Ile Ser Ser Ile Ser Ile
          115          120          125
Cys Leu Ser Leu Tyr Lys Thr Arg Lys Gln Ser Gln Thr Leu Arg Asp
          130          135          140
Met Val Lys Leu Ser Met Arg Val Cys Val Cys Arg Pro Gly Gly Glu
          145          150          155          160
Glu Glu Trp Val Asp Ser Ser Glu Leu Val Pro Gly Asp Cys Leu Val
          165          170          175
Leu Ser Gln Glu Gly Gly Leu Met Pro Cys Asp Ala Ala Leu Val Ala
          180          185          190
Gly Glu Cys Met Val Asn Asp Ser Ser Leu Thr Gly Glu Ser Ile Pro
          195          200          205

```

Val Leu Lys Thr Ala Leu Pro Glu Gly Leu Gly Pro Tyr Cys Ala Glu
 210 215 220
 Thr His Arg Arg His Thr Leu Phe Cys Gly Thr Leu Ile Leu His Ala
 225 230 235 240
 Arg Ala Tyr Val Gly Pro His Val Leu Ala Val Val Thr Arg Thr Gly
 245 250 255
 Met Ser Arg Glu Ala Gly Leu Glu Arg Asp Pro Gly Ser Ala Pro Leu
 260 265 270
 Lys Arg Trp Ser
 275 276

<210> 1004
 <211> 222
 <212> Amino acid
 <213> Homo sapiens

<400> 1004
 Phe Val Gly Gly Gly Leu His Leu His Leu Cys Leu Leu Leu Cys Phe
 1 5 10 15
 Met Leu Pro Glu Asp Ala Ala Met Ala Val Leu Thr Ala Ser Asn His
 20 25 30
 Val Ser Asn Val Thr Val Asn Tyr Asn Ile Thr Val Glu Arg Met Asn
 35 40 45
 Arg Met Gln Gly Leu Arg Val Ser Thr Val Pro Ala Val Leu Ser Pro
 50 55 60
 Asn Ala Thr Leu Ala Leu Thr Ala Gly Val Leu Val Asp Ser Ala Val
 65 70 75 80
 Glu Val Ala Phe Leu Trp Thr Phe Gly Asp Gly Glu Gln Ala Leu His
 85 90 95
 Gln Phe Gln Pro Pro Tyr Asn Glu Ser Phe Pro Val Pro Asp Pro Ser
 100 105 110
 Val Ala Gln Val Leu Val Glu His Asn Val Thr His Thr Tyr Ala Ala
 115 120 125
 Pro Gly Glu Tyr Val Leu Thr Val Leu Ala Ser Asn Ala Phe Glu Asn
 130 135 140
 Arg Thr Gln Gln Val Leu Ile Arg Ser Gly Arg Val Pro Ile Val Ser
 145 150 155 160
 Leu Glu Cys Val Ser Cys Lys Ala Gln Ala Val Tyr Glu Val Ser Arg
 165 170 175
 Ser Ser Tyr Val Tyr Leu Glu Gly Arg Cys Leu Asn Cys Ser Ser Gly
 180 185 190
 Ser Lys Arg Gly Arg Trp Ala Ala Arg Thr Phe Ser Asn Lys Thr Leu
 195 200 205
 Val Leu Asp Glu Thr Thr Thr Ser Thr Gly Ser Ala Ser Met
 210 215 220 222

<210> 1005
 <211> 363
 <212> Amino acid
 <213> Homo sapiens

<400> 1005
 Pro Glu Phe Leu Gly Arg Leu Phe Arg Gly Lys Ala Ala Thr Leu His
 1 5 10 15

```

Val His Ser Asp Gln Lys Pro Leu His Asp Gly Ala Leu Gly Ser Gln
      20      25      30
Gln Asn Leu Val Arg Met Lys Glu Ala Leu Arg Ala Ser Thr Met Asp
      35      40      45
Val Thr Val Val Leu Pro Ser Gly Leu Glu Lys Arg Ser Val Leu Asn
      50      55      60
Gly Ser His Ala Met Met Asp Leu Leu Val Glu Leu Cys Leu Gln Asn
      65      70      75      80
His Leu Asn Pro Ser His His Ala Leu Glu Ile Arg Ser Ser Glu Thr
      85      90      95
Gln Gln Pro Leu Ser Phe Lys Pro Asn Thr Leu Ile Gly Thr Leu Asn
      100     105     110
Val His Thr Val Phe Leu Lys Glu Lys Val Pro Glu Glu Lys Val Lys
      115     120     125
Pro Gly Pro Pro Lys Val Pro Glu Lys Ser Val Arg Leu Val Val Asn
      130     135     140
Tyr Leu Arg Thr Gln Lys Ala Val Val Arg Val Ser Pro Glu Val Pro
      145     150     155     160
Leu Gln Asn Ile Leu Pro Val Ile Cys Ala Lys Cys Glu Val Ser Pro
      165     170     175
Glu His Val Val Leu Leu Arg Asp Asn Ile Ala Gly Glu Glu Leu Glu
      180     185     190
Leu Ser Lys Ser Leu Asn Glu Leu Gly Ile Lys Glu Leu Tyr Ala Trp
      195     200     205
Asp Asn Arg Arg Glu Thr Phe Arg Lys Ser Ser Leu Gly Asn Asp Glu
      210     215     220
Thr Asp Lys Glu Lys Lys Lys Phe Leu Gly Phe Phe Lys Val Asn Lys
      225     230     235     240
Arg Ser Asn Ser Lys Gly Cys Leu Thr Thr Pro Asn Ser Pro Ser Met
      245     250     255
His Ser Arg Ser Leu Thr Leu Gly Pro Ser Leu Ser Leu Gly Ser Ile
      260     265     270
Ser Gly Val Ser Val Lys Ser Glu Met Lys Lys Arg Arg Ala Pro Pro
      275     280     285
Pro Pro Gly Ser Gly Pro Pro Val Gln Asp Lys Ala Ser Glu Lys Val
      290     295     300
Ser Leu Gly Ser Gln Ile Asp Leu Gln Lys Lys Lys Arg Arg Ala Pro
      305     310     315     320
Ala Pro Pro Pro Pro Gln Pro Pro Pro Pro Ser Pro Leu Ile Pro Asn
      325     330     335
Arg Thr Glu Asp Lys Glu Glu Asn Arg Lys Ser Thr Met Val Tyr Cys
      340     345     350
Cys Ala Ser Phe Pro Thr Gln Ala Lys Arg Phe
      355     360     363

```

<210> 1006

<211> 95

<212> Amino acid

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(95)

<223> X = any amino acid or stop code

<400> 1006

```

Val Gln Trp His Asn Leu His Ser Leu Gln Pro Leu Pro Ala Gly Phe
  1      5      10      15
Lys Xaa Phe Leu Cys Phe Ser Leu Pro Ser Ser Trp Asp Tyr Arg Cys

```

```

      20      25      30
Ala Pro Pro Leu Pro Ala Pro Phe Phe Phe Tyr Phe Leu Phe Leu Val
      35      40      45
Glu Leu Gly Phe His His Ile Gly Xaa Ala Gly Leu Glu Leu Thr Ser
      50      55      60
Thr Asp Leu Pro Ala Ser Ala Ser Glu Ser Ala Gly Ile Thr Gly Met
      65      70      75      80
Ser His Arg Ala Arg Pro Met Asp Phe Phe Leu Leu Lys Ile Leu
      85      90      95

```

<210> 1007
 <211> 151
 <212> Amino acid
 <213> Homo sapiens

```

      <400> 1007
Gly Arg Arg Phe Arg Pro Pro Ser Asp Glu Glu Arg Glu Pro Trp Glu
  1      5      10      15
Pro Trp Thr Gln Leu Arg Leu Ser Gly His Leu Lys Pro Leu His Tyr
      20      25      30
Asn Leu Met Leu Thr Ala Phe Met Glu Asn Phe Thr Phe Ser Gly Glu
      35      40      45
Val Asn Val Glu Ile Ala Cys Arg Asn Ala Thr Arg Tyr Val Val Leu
      50      55      60
His Ala Ser Arg Val Ala Val Glu Lys Val Gln Leu Ala Glu Asp Arg
      65      70      75      80
Ala Phe Gly Ala Val Pro Val Ala Gly Phe Phe Leu Tyr Pro Gln Thr
      85      90      95
Gln Val Leu Val Val Val Leu Asn Arg Thr Leu Asp Ala Gln Arg Asn
      100      105      110
Tyr Asn Leu Lys Ile Ile Tyr Asn Ala Leu Ile Glu Asn Glu Leu Leu
      115      120      125
Gly Phe Phe Arg Ser Ser Tyr Val Leu His Gly Glu Arg Arg Phe Leu
      130      135      140
Gly Val Thr Gln Phe Ser Pro
      145      150 151

```

<210> 1008
 <211> 64
 <212> Amino acid
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(64)
 <223> X = any amino acid or stop code

```

      <400> 1008
Lys Glu Leu Asp Pro Phe Tyr Asn Ser Xaa Arg Lys Ile Lys Tyr Leu
  1      5      10      15
Arg Ile Tyr Leu Thr Lys Glu Val Lys Asp Leu Tyr Lys Glu Asn Tyr
      20      25      30
Lys Thr Leu Leu Lys Glu Ile Thr Asp Asp Thr Asn Lys Lys His Ile
      35      40      45

```

Pro Ser Ser Trp Thr Gly Arg Ile Asn Thr Val Lys Met Thr Ile Leu
 50 55 60 64

<210> 1009
 <211> 60
 <212> Amino acid
 <213> Homo sapiens

<400> 1009
 Val Pro His Pro Leu Gln Ala Ile His Glu Gln Met Asn Cys Lys Glu
 1 5 10 15
 Tyr Gln Glu Asp Leu Ala Leu Arg Ala Gln Asn Asp Ala Ala Arg
 20 25 30
 Arg Pro Ser Glu Met Phe Lys Val Arg Leu Ala Gln Gly Arg Gly Leu
 35 40 45
 Ala Ser Leu Ser Ser Gly Ile Gln Ser Gly Val Gly
 50 55 60

<210> 1010
 <211> 44
 <212> Amino acid
 <213> Homo sapiens

<400> 1010
 Arg Trp Asn Ser Leu Thr Cys Val Val Leu Thr Phe Leu Gly His Arg
 1 5 10 15
 Leu Leu Lys Arg Phe Leu Val Pro Lys Leu Arg Arg Phe Leu Lys Pro
 20 25 30
 Gln Gly His Pro Arg Leu Leu Leu Trp Phe Lys Arg
 35 40 44

<210> 1011
 <211> 219
 <212> Amino acid
 <213> Homo sapiens

<400> 1011
 Tyr Gly Glu Phe Val Thr Tyr Gln Gly Val Ala Val Thr Arg Ser Arg
 1 5 10 15
 Lys Glu Gly Ile Ala His Asn Tyr Lys Asn Glu Thr Glu Trp Arg Ala
 20 25 30
 Asn Ile Asp Thr Val Met Ala Trp Phe Thr Glu Glu Asp Leu Asp Leu
 35 40 45
 Val Thr Leu Tyr Phe Gly Glu Pro Asp Ser Thr Gly His Arg Tyr Gly
 50 55 60
 Pro Glu Ser Pro Glu Arg Arg Glu Met Val Arg Gln Val Asp Arg Thr
 65 70 75 80

```

Val Gly Tyr Leu Arg Glu Ser Ile Ala Arg Asn His Leu Thr Asp Arg
      85          90          95
Leu Asn Leu Ile Thr Ser Asp His Gly Met Thr Thr Val Asp Lys
      100          105          110
Arg Ala Gly Asp Leu Val Glu Phe His Lys Phe Pro Asn Phe Thr Phe
      115          120          125
Arg Asp Ile Glu Phe Glu Leu Leu Asp Tyr Gly Pro Asn Gly Met Leu
      130          135          140
Leu Pro Lys Glu Gly Arg Leu Glu Lys Val Tyr Asp Ala Leu Lys Asp
145          150          155          160
Ala His Pro Lys Leu His Val Tyr Lys Lys Glu Ala Phe Pro Glu Ala
      165          170          175
Phe His Tyr Ala Asn Asn Pro Arg Val Thr Pro Leu Leu Met Tyr Ser
      180          185          190
Asp Leu Gly Tyr Val Ile His Gly Val Ser Arg Leu Leu Glu Ala Pro
      195          200          205
Pro Pro Gly Ala Pro Ser Pro Gly Ser Gly Ser
      210          215          219

```

<210> 1012
 <211> 89
 <212> Amino acid
 <213> Homo sapiens

```

<400> 1012
Arg Ile Pro Leu Leu Arg Leu Arg Ser Ser Thr Tyr Arg Ser Lys Gly
 1          5          10          15
Phe Asp Val Thr Val Lys His Ser His Gly Ser Trp Thr Gly Phe Gly
      20          25          30
Gly Glu Asp Leu Ala Thr Ile Pro Lys Gly Leu Asn Thr Tyr Phe Leu
      35          40          45
Val Asn Ile Ala Thr Ile Phe Glu Ser Lys Asn Phe Phe Leu Pro Gly
      50          55          60
Ile Lys Trp Asn Gly Ile Leu Gly Leu Ser Tyr Ala Thr Leu Ala Lys
      65          70          75          80
Pro Ser Ser Ser Leu Glu Thr Phe Phe
      85          89

```

<210> 1013
 <211> 82
 <212> Amino acid
 <213> Homo sapiens

```

<400> 1013
Ile Lys Ser Tyr Ser Gly Pro Asn Gly Arg Ser Cys Gln Ile Trp Gln
 1          5          10          15
Arg Leu Arg Trp Gly Ser Arg Glu Leu Leu Leu Gly Trp Lys Leu Ser
      20          25          30
His Ser Phe Ser Thr Cys Pro Phe Gln Phe Pro Asp Ile Val Glu Phe
      35          40          45
Cys Glu Ala Met Ala Asn Ala Gly Lys Thr Val Ile Val Ala Ala Leu
      50          55          60
Asp Gly Thr Phe Gln Arg Lys Val Arg Arg Leu Ile Gln Val Trp Ser
      65          70          75          80

```

Trp Asp
82

<210> 1014
<211> 107
<212>Amino acid
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(107)
<223> X = any amino acid or stop code

<400> 1014
Tyr Cys Phe Cys Phe Asp Leu Leu His Xaa Cys Ile His Arg Asp Val
1 5 10 15
Lys Pro Glu Asn Ile Leu Ile Thr Lys His Ser Val Ile Lys Leu Cys
20 25 30
Asp Phe Gly Phe Ala Arg Leu Leu Thr Gly Pro Ser Asp Tyr Tyr Thr
35 40 45
Asp Tyr Val Ala Thr Arg Trp Tyr Arg Ser Pro Glu Leu Pro Val Gly
50 55 60
Asp Thr Gln Tyr Gly Pro Pro Val Asp Val Trp Ala Ile Gly Cys Val
65 70 75 80
Ser Ala Glu Leu Leu Ser Gly Lys Cys Leu Trp Trp Pro Gly Lys Ser
85 90 95
Asp Met Leu Asp Gln Leu Tyr Leu Ile Arg Lys
100 105 107

<210> 1015
<211> 70
<212>Amino acid
<213> Homo sapiens

<400> 1015
Arg Gly Trp Ala Leu Asp Trp Ile Gly Ala Asp Leu Ser Leu His Leu
1 5 10 15
Gln Glu Glu Val Glu Thr Glu Val Ala Trp Glu Glu Cys Gly His Val
20 25 30
Leu Leu Ser Leu Cys Tyr Ser Ser Gln Gln Gly Gly Leu Leu Val Gly
35 40 45
Val Leu Arg Cys Ala His Leu Ala Pro Met Asp Ala Asn Gly Tyr Ser
50 55 60
Asp Pro Phe Val Arg Leu
65 70

<210> 1016
<211> 142
<212>Amino acid
<213> Homo sapiens

<400> 1016
 Gly Gly Ile Leu Ala Met Glu Tyr Ala Pro Gly Gly Thr Leu Ala Glu
 1 5 10 15
 Phe Ile Gln Lys Arg Cys Asn Ser Leu Leu Glu Glu Glu Thr Ile Leu
 20 25 30
 His Phe Phe Val Gln Ile Leu Leu Ala Leu His His Val His Thr His
 35 40 45
 Leu Ile Leu His Arg Asp Leu Lys Thr Gln Asn Ile Leu Leu Asp Lys
 50 55 60
 His Arg Met Val Val Lys Ile Gly Asp Phe Gly Ile Ser Lys Ile Leu
 65 70 75 80
 Ser Ser Lys Ser Lys Ala Tyr Thr Val Val Gly Thr Pro Cys Tyr Ile
 85 90 95
 Ser Pro Glu Leu Cys Glu Gly Lys Pro Tyr Asn Gln Lys Ser Asp Ile
 100 105 110
 Trp Ala Leu Gly Cys Val Leu Tyr Glu Leu Ala Ser Leu Lys Arg Ala
 115 120 125
 Phe Glu Ala Ala Asn Leu Pro Ala Leu Val Leu Lys Ile Met
 130 135 140 142

<210> 1017
 <211> 87
 <212>Amino acid
 <213> Homo sapiens

<400> 1017
 Val Gln Cys Gly Gly Ile His Gln Val Ser Gly Ala Val Val Val Ser
 1 5 10 15
 Gly Leu Leu Gln Gly Met Met Gly Leu Leu Gly Ser Pro Gly His Val
 20 25 30
 Phe Pro His Cys Gly Pro Leu Val Leu Ala Pro Ser Leu Val Val Ala
 35 40 45
 Gly Leu Ser Ala His Arg Glu Val Ala Gln Phe Cys Phe Thr His Trp
 50 55 60
 Gly Leu Ala Leu Leu Tyr Val Ser Pro Glu Arg Arg Gly Met Val Pro
 65 70 75 80
 Ser Gly Gly Val Trp Gly Asp
 85 87

<210> 1018
 <211> 160
 <212>Amino acid
 <213> Homo sapiens

<400> 1018
 Pro Arg Met Thr Gly Ser Thr His Ala Ser Ala Pro Ser Tyr Gly Gly
 1 5 10 15
 Ser Cys Arg Asn Asn Leu Phe Tyr Arg Glu Glu Thr Tyr Thr Pro Lys
 20 25 30
 Ala Glu Thr Asp Glu Met Asn Glu Val Glu Thr Ala Pro Ile Pro Glu
 35 40 45
 Glu Asn His Val Trp Leu Gln Pro Arg Val Met Arg Pro Thr Lys Pro

50	55	60															
Lys	Lys	Thr	Ser	Ala	Val	Asn	Tyr	Met	Thr	Gln	Val	Val	Arg	Cys	Asp		
65					70					75					80		
Thr	Lys	Met	Lys	Asp	Arg	Cys	Ile	Gly	Ser	Thr	Cys	Asn	Arg	Tyr	Gln		
				85					90						95		
Cys	Pro	Ala	Gly	Cys	Leu	Asn	His	Lys	Ala	Lys	Ile	Phe	Gly	Ser	Leu		
		100						105					110				
Phe	Tyr	Glu	Ser	Phe	Ala	Ser	Ile	Cys	Arg	Ala	Ala	Ile	His	Tyr	Gly		
		115					120					125					
Ile	Leu	Asp	Asp	Lys	Gly	Gly	Leu	Val	Asp	Ile	Thr	Arg	Asn	Gly	Lys		
	130					135					140						
Val	Pro	Phe	Phe	Val	Lys	Ser	Glu	Arg	His	Gly	Val	Gln	Ser	Leu	Arg		
145					150					155					160		

<210> 1019
 <211> 174
 <212> Amino acid
 <213> Homo sapiens

<400> 1019																	
Val	Pro	Gln	Asn	Ile	Ile	Cys	Ala	Phe	Phe	Cys	Val	Pro	Cys	Arg	Phe		
1				5					10					15			
Ala	Ser	Thr	Ile	Pro	Phe	Trp	Gly	Leu	Thr	Leu	His	Leu	Gln	His	Leu		
		20					25					30					
Gly	Asn	Asn	Val	Phe	Leu	Leu	Gln	Thr	Leu	Phe	Gly	Ala	Val	Thr	Leu		
	35						40				45						
Leu	Ala	Asn	Cys	Val	Ala	Pro	Trp	Ala	Leu	Asn	His	Met	Ser	Arg	Arg		
	50					55				60							
Leu	Ser	Gln	Met	Leu	Leu	Met	Phe	Leu	Leu	Ala	Thr	Cys	Leu	Leu	Ala		
	65				70					75				80			
Ile	Ile	Phe	Val	Pro	Gln	Glu	Met	Gln	Thr	Leu	Arg	Val	Val	Leu	Ala		
			85					90						95			
Thr	Leu	Gly	Val	Gly	Ala	Ala	Ser	Leu	Gly	Ile	Thr	Cys	Ser	Thr	Ala		
		100					105					110					
Gln	Glu	Asn	Glu	Leu	Ile	Pro	Ser	Ile	Ile	Arg	Gly	Arg	Ala	Thr	Gly		
	115					120				125							
Ile	Thr	Gly	Asn	Phe	Ala	Asn	Ile	Gly	Gly	Ala	Leu	Ala	Ser	Leu	Val		
	130					135				140							
Met	Ile	Leu	Ser	Ile	Tyr	Ser	Arg	Pro	Leu	Pro	Trp	Ile	Ile	Tyr	Gly		
	145				150					155				160			
Val	Phe	Ala	Ile	Leu	Ser	Gly	Leu	Val	Val	Leu	Leu	Leu	Pro				
			165					170					174				

<210> 1020
 <211> 225
 <212> Amino acid
 <213> Homo sapiens

<400> 1020																	
Val	Leu	Val	Ser	Arg	Asp	His	Met	Lys	Ser	Ala	Gln	Gln	Phe	Phe	Gln		
1				5					10					15			
Leu	Val	Gly	Gly	Ser	Ala	Ser	Glu	Cys	Asp	Thr	Ile	Pro	Gly	Arg	Gln		

```

                20                25                30
Cys Met Ala Ser Cys Phe Phe Leu Lys Gln Phe Asp Asp Val Leu
      35                40                45
Ile Tyr Leu Asn Ser Phe Lys Ser His Phe Tyr Asn Asp Asp Ile Phe
      50                55                60
Asn Phe Asn Tyr Ala Gln Ala Lys Ala Ala Thr Gly Asn Thr Ser Glu
      65                70                75                80
Gly Glu Glu Ala Phe Leu Leu Ile Gln Ser Glu Lys Met Lys Asn Asp
      85                90                95
Tyr Ile Tyr Leu Ser Trp Leu Ala Arg Gly Tyr Ile Met Asn Lys Lys
      100                105                110
Pro Arg Leu Ala Trp Glu Leu Tyr Leu Lys Met Glu Thr Ser Gly Glu
      115                120                125
Ser Phe Ser Leu Leu Gln Leu Ile Ala Asn Asp Cys Tyr Lys Met Gly
      130                135                140
Gln Phe Tyr Tyr Ser Ala Lys Ala Phe Asp Val Leu Glu Arg Leu Asp
      145                150                155                160
Pro Asn Pro Glu Tyr Trp Glu Gly Lys Arg Gly Ala Cys Val Gly Ile
      165                170                175
Phe Gln Met Ile Ile Ala Gly Arg Glu Pro Lys Glu Thr Leu Arg Glu
      180                185                190
Val Leu His Leu Leu Arg Ser Thr Gly Asn Thr Gln Val Glu Tyr Met
      195                200                205
Ile Arg Ile Met Lys Lys Trp Ala Lys Glu Asn Arg Val Ser Ile Leu
      210                215                220
Lys
225

```

```

<210> 1021
<211> 118
<212>Amino acid
<213> Homo sapiens

```

```

<400> 1021
Leu Lys Val Ser Asp Glu Leu Val Gln Gln Tyr Gln Ile Lys Asn Gln
 1          5          10          15
Cys Leu Ser Ala Ile Ala Ser Asp Ala Glu Gln Glu Pro Lys Ile Asp
      20          25          30
Pro Tyr Ala Phe Val Glu Gly Asp Glu Glu Phe Leu Phe Pro Asp Lys
      35          40          45
Lys Asp Arg Gln Asn Ser Glu Arg Glu Ala Gly Lys Lys His Lys Val
      50          55          60
Arg Glu Ile Thr Val His Gln Arg Val Thr Val Asp Phe Val Ala Leu
      65          70          75          80
His Ile Val Thr Leu Leu Leu Pro Gln Leu Ser His Phe Phe Cys Leu
      85          90          95
Arg Ile Glu Arg Val Ile Ile Tyr Leu Glu Lys Pro Ile Phe Ala Arg
      100          105          110
Leu Arg Trp Leu Met Pro
      115          118

```

```

<210> 1022
<211> 178
<212>Amino acid
<213> Homo sapiens

```

<400> 1022

```

Gly Val Pro Arg Asn Leu Pro Ser Ser Leu Glu Tyr Leu Leu Leu Ser
 1           5           10           15
Tyr Asn Arg Ile Val Lys Leu Ala Pro Glu Asp Leu Ala Asn Leu Thr
      20           25           30
Ala Leu Arg Val Leu Asp Val Gly Gly Asn Cys Arg Arg Cys Asp His
      35           40           45
Ala Pro Asn Pro Cys Met Glu Cys Pro Arg His Phe Pro Gln Leu His
      50           55           60
Pro Asp Thr Phe Ser His Leu Ser Arg Leu Glu Gly Leu Val Leu Lys
      65           70           75           80
Asp Ser Ser Leu Ser Trp Leu Asn Ala Ser Trp Phe Arg Gly Leu Gly
      85           90           95
Asn Leu Arg Val Leu Asp Leu Ser Glu Asn Phe Leu Tyr Lys Cys Ile
      100          105          110
Thr Lys Thr Lys Ala Phe Gln Gly Leu Thr Gln Leu Arg Lys Leu Asn
      115          120          125
Leu Ser Phe Asn Tyr Gln Lys Arg Val Ser Phe Ala His Leu Val Ser
      130          135          140
Gly Pro Pro Phe Leu Arg Gly Ser Leu Gly Arg Pro Leu Lys Gly Ala
      145          150          155          160
Gly Thr Trp His Gly Asn Leu Ser Phe Pro Leu His Phe Glu Trp Gly
      165          170          175
Lys Thr
      178

```

<210> 1023

<211> 146

<212>Amino acid

<213> Homo sapiens

<400> 1023

```

Ile Leu Phe Ala Ala Leu Ile Trp Ser Ser Phe Asp Glu Asn Ile Glu
 1           5           10           15
Ala Ser Ala Gly Gly Gly Gly Gly Ser Ser Ile Asp Ala Val Met Val
      20           25           30
Asp Ser Gly Ala Val Val Glu Gln Tyr Lys Arg Met Gln Ser Gln Glu
      35           40           45
Ser Ser Ala Lys Arg Ser Asp Glu Gln Arg Lys Met Lys Glu Gln Gln
      50           55           60
Ala Ala Glu Glu Leu Arg Glu Lys Gln Ala Ala Glu Gln Glu Arg Leu
      65           70           75           80
Lys Gln Leu Glu Lys Glu Arg Leu Ala Ala Gln Glu Gln Lys Lys Gln
      85           90           95
Ala Glu Glu Ala Ala Lys Gln Ala Glu Leu Lys Gln Lys Gln Ala Glu
      100          105          110
Glu Ala Ala Ala Lys Ala Ala Ala Asp Ala Lys Ala Lys Ala Glu Ala
      115          120          125
Asp Ala Lys Ala Ala Glu Glu Ala Ala Lys Lys Ala Ala Asp Ala
      130          135          140
Lys Lys
      145 146

```

<210> 1024

<211> 39

<212>Amino acid

<213> Homo sapiens

<400> 1024

```

Ala Met Glu Ile Val His Glu Pro Arg Asp Leu Glu Arg Tyr Met Arg
 1           5           10           15
Glu Ala Val Lys Val Ser Asn Asp Ser Pro Val Leu Leu Asp Arg Phe
           20           25           30
Leu Asn Asp Ala Ile Glu Cys
           35           39

```

<210> 1025

<211> 53

<212>Amino acid

<213> Homo sapiens

<400> 1025

```

Met Leu Ser Pro Gly Tyr Asp Tyr Gly Tyr Val Cys Val Glu Phe Ser
 1           5           10           15
Leu Leu Glu Asp Ala Ile Gly Cys Met Glu Ala Asn Gln Val Ala Leu
           20           25           30
Tyr Phe Gly Gln Met Met Leu Glu Gly Tyr Ile Phe Leu Tyr Met Gly
           35           40           45
Arg Glu Gly Phe Lys
           50           53

```

<210> 1026

<211> 365

<212>Amino acid

<213> Homo sapiens

<400> 1026

```

Pro Arg Val Arg Ser Ser Gly Gly Gln Glu Asp Pro Ala Ser Gln Gln
 1           5           10           15
Trp Ala Arg Pro Arg Phe Thr Gln Pro Ser Lys Met Arg Arg Arg Val
           20           25           30
Ile Ala Arg Pro Val Gly Ser Ser Val Arg Leu Lys Cys Val Ala Ser
           35           40           45
Gly His Pro Arg Pro Asp Ile Thr Trp Met Lys Asp Asp Gln Ala Leu
           50           55           60
Thr Arg Pro Glu Ala Ala Glu Pro Arg Lys Lys Lys Trp Thr Leu Ser
           65           70           75           80
Leu Lys Asn Leu Arg Pro Glu Asp Ser Gly Lys Tyr Thr Cys Arg Val
           85           90           95
Ser Asn Arg Ala Gly Ala Ile Asn Ala Thr Tyr Lys Val Asp Val Ile
           100          105          110
Gln Arg Thr Arg Ser Lys Pro Val Leu Thr Gly Thr His Pro Val Asn
           115          120          125
Thr Thr Val Asp Phe Gly Gly Thr Thr Ser Phe Gln Cys Lys Val Arg
           130          135          140
Ser Asp Val Lys Pro Val Ile Gln Trp Leu Lys Arg Val Glu Tyr Gly

```

```

145          150          155          160
Ala Glu Gly Arg His Asn Ser Thr Ile Asp Val Gly Gly Gln Lys Phe
165          170          175
Val Val Leu Pro Thr Gly Asp Val Trp Ser Arg Pro Asp Gly Ser Tyr
180          185          190
Leu Asn Lys Leu Leu Ile Thr Arg Ala Arg Gln Asp Asp Ala Gly Met
195          200          205
Tyr Ile Cys Leu Gly Ala Asn Thr Met Gly Tyr Ser Phe Arg Ser Ala
210          215          220
Phe Leu Thr Val Leu Pro Asp Pro Lys Pro Pro Gly Pro Pro Val Ala
225          230          235          240
Ser Ser Ser Ser Ala Thr Ser Leu Pro Trp Pro Val Val Ile Gly Ile
245          250          255
Pro Ala Gly Ala Val Phe Ile Leu Gly Thr Leu Leu Leu Trp Leu Cys
260          265          270
Gln Ala Gln Lys Lys Pro Cys Thr Pro Ala Pro Ala Pro Pro Leu Pro
275          280          285
Gly His Arg Pro Pro Gly Thr Ala Arg Asp Arg Ser Gly Asp Lys Asp
290          295          300
Leu Pro Ser Leu Ala Ala Leu Ser Ala Gly Pro Gly Val Gly Leu Cys
305          310          315          320
Glu Glu His Gly Ser Pro Ala Ala Pro Gln His Leu Leu Gly Pro Gly
325          330          335
Pro Val Ala Gly Pro Lys Leu Tyr Pro Lys Leu Tyr Thr Asp Ile Pro
340          345          350
His His Thr His Thr His Thr Pro His Pro Pro Ala Asn
355          360          365

```

<210> 1027

<211> 30

<212>Amino acid

<213> Homo sapiens

<400> 1027

```

Asn Phe His Phe Thr Gly Lys Cys Leu Phe Met Ser Gly Leu Ser Glu
1          5          10          15
Val Gln Leu Thr His Met Asp Asp His Thr Leu Pro Gly Tyr
20          25          30

```

<210> 1028

<211> 104

<212>Amino acid

<213> Homo sapiens

<400> 1028

```

Ser Pro Arg Lys Arg Lys Thr Arg His Ser Thr Asn Pro Pro Leu Glu
1          5          10          15
Cys His Val Gly Trp Val Met Asp Ser Arg Asp His Gly Pro Gly Thr
20          25          30
Ser Ser Val Ser Thr Ser Asn Ala Ser Pro Ser Glu Gly Ala Pro Leu
35          40          45
Ala Gly Ser Tyr Gly Cys Thr Pro His Ser Phe Pro Lys Phe Gln His
50          55          60
Pro Ser His Glu Leu Leu Lys Glu Asn Gly Phe Thr Gln Gln Val Tyr

```

```

      65              70              75              80
His Lys Tyr Arg Arg Arg Cys Leu Ser Glu Arg Lys Arg Leu Gly Ile
      85              90              95
Gly Gln Ser Gln Glu Met Asn Thr
      100              104

```

```

<210> 1029
<211> 119
<212> Amino acid
<213> Homo sapiens

```

```

<400> 1029
Pro Gly Ser Gly Gly Ser Ala Gly Gly Arg Asp Gly Ser Ala Tyr Gln
 1              5              10              15
Gly Ala Leu Leu Pro Arg Glu Gln Phe Ala Ala Pro Leu Gly Arg Pro
      20              25              30
Val Gly Thr Ser Tyr Ser Ala Thr Tyr Pro Ala Tyr Val Ser Pro Asp
      35              40              45
Val Ala Gln Ser Trp Thr Ala Gly Pro Phe Asp Gly Ser Val Leu His
      50              55              60
Gly Leu Pro Gly Arg Arg Pro Thr Phe Val Ser Asp Phe Leu Glu Glu
      65              70              75              80
Phe Pro Gly Glu Gly Arg Glu Cys Val Asn Cys Gly Ala Leu Ser Thr
      85              90              95
Pro Leu Trp Arg Arg Asp Gly Thr Gly His Tyr Leu Cys Asn Ala Cys
      100              105              110
Gly Leu Tyr His Lys Met Asn
      115              119

```

```

<210> 1030
<211> 171
<212> Amino acid
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(171)
<223> X = any amino acid or stop code

```

```

<400> 1030
Pro Asp His Arg His Gly Ala Leu Trp Trp Trp Tyr Ser Cys Gly Val
 1              5              10              15
Leu Pro Val Thr Val Ser Arg Asn Glu Gly Asp Glu Arg Asn Gln Val
      20              25              30
Leu Thr Leu Tyr Leu Trp Ile Arg Gln Glu Trp Thr Asp Ala Tyr Leu
      35              40              45
Arg Trp Asp Pro Asn Ala Tyr Gly Gly Leu Asp Ala Ile Arg Ile Pro
      50              55              60
Ser Ser Leu Val Trp Arg Pro Asp Ile Val Leu Tyr Asn Lys Tyr Cys
      65              70              75              80
Leu Ser Ala Ala Pro Pro Leu Ser Tyr Pro Ser Leu Asp Leu Pro Leu
      85              90              95
Ala Val Gly Val Xaa Xaa Ser Pro Leu Pro Thr Thr Xaa Pro Gly Cys
      100              105              110

```

```

His Ala Ala Leu Glu Ala Phe Pro Gln Asp Pro Ser Lys Leu Pro Ser
      115                      120                      125
Thr Gln Pro Leu His Gly Thr Pro Thr Leu Gly Tyr Pro Arg Pro Ala
      130                      135                      140
Gln Ala Glu Arg Leu Leu Gly Thr Tyr Cys Val Val Gln Gly Arg Cys
145                      150                      155                      160
Leu Asn His Lys Gly Leu Ser Arg Ala His Phe
                      165                      170 171

```

```

<210> 1031
<211> 198
<212>Amino acid
<213> Homo sapiens

```

```

<400> 1031
Tyr Ala Leu Thr Gly Ala Leu Val Ile Val Thr Gly Met Val Met Gly
 1      5                      10                      15
Asn Ile Ala Asp Tyr Phe Asn Leu Pro Val Ser Ser Met Ser Asn Thr
      20                      25                      30
Phe Thr Phe Leu Asn Ala Gly Ile Leu Ile Ser Ile Phe Leu Asn Ala
      35                      40                      45
Trp Leu Met Glu Ile Val Pro Leu Lys Thr Gln Leu Arg Phe Gly Phe
      50                      55                      60
Leu Leu Met Val Leu Ala Val Ala Gly Leu Met Phe Ser His Ser Leu
      65                      70                      75                      80
Ala Leu Phe Ser Ala Ala Met Phe Ile Leu Gly Val Val Ser Gly Ile
      85                      90                      95
Thr Met Ser Ile Gly Thr Phe Leu Val Thr Gln Met Tyr Glu Gly Arg
      100                     105                     110
Gln Arg Gly Ser Arg Leu Leu Phe Thr Asp Ser Phe Phe Ser Met Ala
      115                     120                     125
Gly Met Ile Phe Pro Met Ile Ala Ala Phe Leu Leu Ala Arg Ser Ile
      130                     135                     140
Glu Trp Tyr Trp Val Tyr Ala Cys Ile Gly Leu Val Tyr Val Ala Ile
145                     150                     155                     160
Phe Ile Leu Thr Phe Gly Cys Glu Phe Pro Ala Leu Cys Ser His Ala
      165                     170                     175
Thr Lys Leu Gly Thr Ala Ser Ser Tyr Pro Ser Leu Asp Val Val Gln
      180                     185                     190
Leu Arg Thr Leu Asn Ala
      195                     198

```

```

<210> 1032
<211> 138
<212>Amino acid
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(138)
<223> X = any amino acid or stop code

```

```

<400> 1032
Met Ala Lys Val Gly Leu Lys Thr Glu His Tyr Asp Arg Tyr Pro His

```

```

      1           5           10           15
Met Phe Ser Gly Gln Arg Gln Arg Ile Ala Ile Ala Arg Gly Leu
      20           25           30
Met Leu Asp Pro Asp Val Val Ile Ala Asp Glu Pro Val Ser Ala Leu
      35           40           45
Asp Val Ser Val Arg Ala Gln Val Leu Asn Leu Met Met Asp Leu Gln
      50           55           60
Gln Glu Leu Gly Leu Ser Tyr Val Phe Ile Ser His Asp Leu Ser Val
      65           70           75           80
Val Glu His Ile Ala Asp Glu Val Met Val Met Tyr Leu Gly Arg Cys
      85           90           95
Val Glu Lys Gly Thr Lys Asp Gln Ile Phe Asn Asn Pro Arg His Pro
      100          105          110
Tyr Thr Gln Ala Leu Leu Ser Ala Thr Pro Arg Leu Asn Pro Asp Asp
      115          120          125
Arg Arg Glu Arg Ile Lys Leu Ser Xaa *
      130          135          137

```

<210> 1033
 <211> 141
 <212>Amino acid
 <213> Homo sapiens

```

      <400> 1033
Ser Ala Thr Leu Glu Arg Val Leu Asn His Pro Asp Glu Thr Gln Ala
      1           5           10           15
Arg Arg Leu Met Thr Leu Glu Asp Ile Val Ser Gly Tyr Ser Asn Val
      20           25           30
Leu Ile Ser Leu Ala Asp Ser Gln Gly Lys Thr Val Tyr His Ser Pro
      35           40           45
Gly Ala Pro Asp Ile Arg Glu Phe Thr Arg Asp Ala Ile Pro Asp Lys
      50           55           60
Asp Ala Gln Gly Gly Glu Val Tyr Leu Leu Ser Gly Pro Thr Met Met
      65           70           75           80
Met Pro Gly His Gly His Gly His Met Glu His Ser Asn Trp Arg Met
      85           90           95
Ile Asn Leu Pro Val Gly Pro Leu Val Asp Gly Lys Pro Ile Tyr Thr
      100          105          110
Leu Tyr Ile Ala Leu Ser Ile Asp Phe His Leu His Tyr Ile Asn Asp
      115          120          125
Leu Met Asn Lys Leu Ile Met Thr Ala Ser Val Ile Ile
      130          135          140 141

```

<210> 1034
 <211> 112
 <212>Amino acid
 <213> Homo sapiens

```

      <400> 1034
Val Leu Ala Tyr Pro Gly Ile Lys Val Ser Thr Ala Glu Ala Arg Ala
      1           5           10           15
Ile Leu Pro Ala Gln Tyr Arg Arg Gln Asp Cys Ile Ala His Gly Arg
      20           25           30
His Leu Ala Gly Phe Ile His Ala Cys Tyr Ser Arg Gln Pro Glu Leu

```

```

      35      40      45
Ala Ala Lys Leu Met Lys Asp Val Ile Ala Glu Pro Tyr Arg Glu Arg
  50      55      60
Leu Leu Pro Gly Phe Arg Gln Ala Arg Gln Ala Val Ala Glu Ile Gly
  65      70      75      80
Ala Val Ala Ser Gly Ile Ser Gly Ser Gly Pro Thr Leu Phe Ala Leu
      85      90      95
Cys Asp Lys Pro Glu Thr Ala Gln Arg Val Ala Asp Trp Leu Gly Lys
      100      105      110      112

```

<210> 1035
 <211> 92
 <212>Amino acid
 <213> Homo sapiens

```

      <400> 1035
Gly Gln Gln Gln Arg Val Ala Leu Ala Arg Ala Leu Ile Leu Lys Pro
  1      5      10      15
Lys Val Leu Leu Phe Asp Glu Pro Leu Ser Asn Leu Asp Ala Asn Leu
      20      25      30
Arg Arg Ser Met Arg Asp Lys Ile Arg Glu Leu Gln Lys Gln Phe Asp
      35      40      45
Ile Thr Ser Leu Tyr Val Thr His Asp Gln Ser Glu Ala Phe Ala Val
      50      55      60
Ser Asp Thr Val Leu Val Met Asn Lys Gly His Ile Met Gln Ile Gly
      65      70      75      80
Ser Pro Gln Asp Leu Arg Val Arg Arg Leu Asn Trp
      85      90      92

```

<210> 1036
 <211> 51
 <212>Amino acid
 <213> Homo sapiens

```

      <400> 1036
Ala Val His Tyr Leu Glu Arg Val Arg Ile Ala Glu His Ala His Lys
  1      5      10      15
Phe Pro Gly Gln Ile Ser Gly Gly Gln Gln Gln Arg Val Ala Ile Ala
      20      25      30
Arg Ser Leu Cys Met Lys Pro Lys Ile Met Leu Phe Asp Glu Pro Thr
      35      40      45
Ser Ala Leu
      50      51

```

<210> 1037
 <211> 72
 <212>Amino acid
 <213> Homo sapiens

<400> 1037

```

Ala Pro Tyr Asp Ala Glu Asn Tyr Phe Asp Tyr Asp Asn Leu Asn Asn
 1          5          10          15
Gly Pro Ser Leu Gln His Trp Phe Gly Val Asp Ser Leu Gly Arg Asp
          20          25          30
Ile Phe Ser Arg Val Leu Val Gly Ala Gln Ile Ser Leu Ala Ala Gly
          35          40          45
Val Phe Ala Val Phe Ile Gly Ala Ala Ile Gly Thr Leu Leu Gly Leu
          50          55          60
Leu Ala Gly Tyr Tyr Glu Gly Trp
65          70          72

```

<210> 1038

<211> 188

<212>Amino acid

<213> Homo sapiens

<400> 1038

```

Val Phe Cys Leu Ile Ala Asp Leu Asp Pro Ile Asp Glu Leu Val Asp
 1          5          10          15
Phe Pro Ile Val Tyr Ala Ser Ala Leu Asn Gly Ile Ala Gly Leu Asp
          20          25          30
His Glu Asp Met Ala Glu Asp Met Thr Pro Leu Tyr Gln Ala Ile Val
          35          40          45
Asp His Val Pro Ala Pro Asp Val Asp Leu Asp Gly Pro Phe Gln Met
          50          55          60
Gln Ile Ser Gln Leu Asp Tyr Asn Ser Tyr Val Gly Val Ile Gly Ile
          65          70          75          80
Gly Arg Ile Lys Arg Gly Lys Val Lys Pro Asn Gln Gln Val Thr Ile
          85          90          95
Ile Asp Ser Glu Gly Lys Thr Arg Asn Ala Lys Val Gly Lys Val Leu
          100          105          110
Gly His Leu Gly Leu Glu Arg Ile Glu Thr Asp Leu Ala Glu Ala Gly
          115          120          125
Asp Ile Val Ala Ile Thr Gly Leu Gly Glu Leu Asn Ile Ser Asp Thr
          130          135          140
Val Cys Asp Thr Gln Asn Val Glu Ala Leu Pro Ala Leu Ser Val Asp
          145          150          155          160
Glu Pro Thr Val Ser Met Phe Phe Cys Val Asn Thr Ser Pro Phe Cys
          165          170          175
Gly Lys Glu Gly Lys Phe Val Thr Ser Arg Gln Ile
          180          185          188

```

<210> 1039

<211> 122

<212>Amino acid

<213> Homo sapiens

<400> 1039

```

Gln Gly Thr Arg Ala Glu Ser Gln Gly Ser Ser Lys Asp Lys Thr Arg
 1          5          10          15
Leu Ala Phe Ala Gly Leu Lys Phe Gly Asp Tyr Gly Ser Ile Asp Tyr

```

```

      20      25      30
Gly Arg Asn Tyr Gly Val Ala Tyr Asp Ile Gly Ala Trp Thr Asp Val
      35      40      45
Leu Pro Glu Phe Gly Gly Asp Thr Trp Thr Gln Thr Asp Val Phe Met
      50      55      60
Thr Gln Arg Ala Thr Gly Val Ala Thr Tyr Arg Asn Asn Asp Phe Phe
      65      70      75      80
Gly Leu Val Asp Gly Leu Asn Phe Ala Ala Gln Tyr Gln Gly Lys Asn
      85      90      95
Asp Arg Ser Asp Phe Asp Asn Tyr Thr Glu Gly Asn Gly His Gly Phe
      100      105      110
Gly Phe Ser Ala Thr Tyr Glu Tyr Glu Gly
      115      120      122

```

```

<210> 1040
<211> 65
<212> Amino acid
<213> Homo sapiens

```

```

<400> 1040
Asp Thr Tyr Ser Val Ser Ile Pro Leu Gly Ala Thr Ile Asn Met Ala
  1      5      10      15
Gly Ala Ala Ile Thr Ile Thr Val Leu Thr Leu Ala Ala Val Asn Thr
      20      25      30
Leu Gly Ile Pro Val Asp Leu Pro Thr Ala Leu Leu Leu Ser Val Val
      35      40      45
Ala Ser Leu Cys Ala Cys Gly Ala Ser Gly Val Ala Gly Gly Ser Leu
      50      55      60
Leu
65

```

```

<210> 1041
<211> 46
<212> Amino acid
<213> Homo sapiens

```

```

<400> 1041
Ala Asn Ala Gln Gln Gly Leu Pro Ser Gly Ile Thr Leu Lys Leu Asn
  1      5      10      15
Asn Leu Val Asp Lys Gly Leu Val Asp Arg Leu Tyr Ala Ala Ser Ser
      20      25      30
Ser Gly Val Pro Val Asn Leu Leu Val Arg Gly Thr Cys Ser
      35      40      45      46

```

```

<210> 1042
<211> 146
<212> Amino acid
<213> Homo sapiens

```

<400> 1042

Ala Arg Met Thr Leu Ile Pro Gly Thr His Leu Leu Glu Asn Ile His
 1 5 10 15
 Asn Ile Trp Val Asn Gly Val Gly Thr Asn Ser Ala Pro Phe Trp Arg
 20 25 30
 Met Leu Leu Asn Ser Phe Val Met Ala Phe Ser Ile Thr Leu Gly Lys
 35 40 45
 Ile Thr Val Ser Met Leu Ser Ala Phe Ala Ile Val Trp Phe Arg Phe
 50 55 60
 Pro Leu Arg Asn Leu Phe Phe Trp Met Ile Phe Ile Thr Leu Met Leu
 65 70 75 80
 Pro Val Glu Val Arg Ile Phe Pro Thr Val Glu Val Ile Ala Asn Leu
 85 90 95
 Gln Met Leu Asp Ser Tyr Ala Gly Leu Thr Leu Pro Leu Met Ala Ser
 100 105 110
 Ala Thr Ala Thr Phe Leu Phe Arg Lys Leu Asn Met Ser Gly Pro Asp
 115 120 125
 Lys Val Val Pro Ala Ala Arg Ile Ser Gly Tyr Gly Pro Arg Val Arg
 130 135 140
 Lys Gln
 145 146

<210> 1043

<211> 133

<212>Amino acid

<213> Homo sapiens

<400> 1043

Cys Ala Lys Cys Leu Arg Asp Ala Asp Glu Cys Pro Ser Gly Ala Phe
 1 5 10 15
 Glu Arg Ile Gly Arg Asp Ile Ser Leu Asp Ala Leu Glu Arg Glu Val
 20 25 30
 Met Lys Asp Asp Ile Phe Phe Arg Thr Ser Gly Gly Gly Val Thr Leu
 35 40 45
 Ser Gly Gly Glu Val Leu Met Gln Ala Glu Phe Ala Thr Arg Phe Leu
 50 55 60
 Gln Arg Leu Arg Leu Trp Gly Val Ser Cys Ala Ile Glu Thr Ala Gly
 65 70 75 80
 Asp Ala Pro Ala Ser Lys Leu Leu Pro Leu Ala Lys Leu Cys Asp Glu
 85 90 95
 Val Leu Phe Asp Leu Lys Ile Met Asp Ala Thr Gln Ala Arg Asp Val
 100 105 110
 Val Lys Met Asn Leu Pro Arg Val Leu Glu Asn Leu Arg Leu Leu Val
 115 120 125
 Ser Glu Gly Val Asn
 130 133

<210> 1044

<211> 115

<212>Amino acid

<213> Homo sapiens

<400> 1044

Tyr Leu Leu Leu Phe Val Cys Phe Leu Val Met Ser Leu Leu Val Gly

```

      1           5           10           15
Leu Val Tyr Lys Phe Thr Ala Glu Arg Ala Gly Lys Gln Ser Leu Asp
      20           25           30
Asp Leu Met Asn Ser Ser Leu Tyr Leu Met Arg Ser Glu Leu Arg Glu
      35           40           45
Ile Pro Pro His Asp Trp Gly Lys Thr Leu Lys Glu Met Asp Leu Asn
      50           55           60
Leu Ser Phe Asp Leu Arg Val Glu Pro Leu Ser Lys Tyr His Leu Asp
      65           70           75           80
Asp Ile Ser Met His Arg Leu Arg Gly Gly Glu Ile Val Ala Leu Asp
      85           90           95
Asp Gln Tyr Thr Phe Leu Gln Arg Ile Pro Arg Ser His Tyr Val Leu
      100           105           110
Ala Val Gly
      115

```

<210> 1045
 <211> 69
 <212>Amino acid
 <213> Homo sapiens

```

      <400> 1045
Val Glu Leu Phe Leu Ser Asp Glu Gly Asp Asp Val Val Ile Glu Val
      1           5           10           15
Ala Asp Gln Gly Cys Gly Val Pro Glu Ser Leu Arg Asp Lys Ile Phe
      20           25           30
Glu Gln Gly Val Ser Thr Arg Ala Asp Glu Pro Gly Glu His Gly Ile
      35           40           45
Gly Leu Tyr Leu Ile Ala Ser Tyr Val Thr Arg Cys Gly Gly Val Ile
      50           55           60
Thr Leu Glu Asp Asn
      65           69

```

<210> 1046
 <211> 69
 <212>Amino acid
 <213> Homo sapiens

```

      <400> 1046
Asp Ala Ile Ile Ala Pro Asp Ala Asn Ala Leu Pro Ala Ala Ala Gln
      1           5           10           15
Ala Ala Glu Asn Leu Lys Asn Asp Lys Val Ala Ile Val Gly Phe Ser
      20           25           30
Thr Pro Asn Val Met Arg Pro Tyr Val Glu Arg Gly Thr Val Lys Glu
      35           40           45
Phe Gly Leu Trp Asp Val Val Gln Gln Gly Lys Ile Ser Val Tyr Val
      50           55           60
Ala Asp Ala Leu Gln
      65           69

```

<210> 1047
 <211> 43
 <212>Amino acid

<213> Homo sapiens

<400> 1047

```

Tyr Ile Val Val Thr Gly Lys Thr His Cys Gly Thr Pro Leu Thr Thr
 1           5           10           15
Val Thr Gly Asp Ala Thr Gln Ser Gly Tyr Leu Thr Leu Asn Leu Pro
          20          25          30
Glu Met Trp Glu Val Ser Gly Tyr Asn Arg Val
      35          40          43

```

<210> 1048

<211> 77

<212>Amino acid

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1) ... (77)

<223> X = any amino acid or stop code

<400> 1048

```

Xaa Glu Gly Val Glu Pro Asp Ile Asn Ala Ser Lys Thr Arg Gln Gln
 1           5           10           15
Leu Asn Asp Val Ala Gly Lys Met Lys Ile Ile Glu Ala Arg Leu Ser
          20          25          30
Ala Leu Thr Asn Asn Gln Thr Lys Ser Leu Lys Leu Asn Pro Val Ala
      35          40          45
Leu Pro Lys Val Ala Ser Gln Leu Leu Asp Glu Leu Gly Tyr Ser Leu
      50          55          60
Leu Ala Arg Arg Ala Asp Leu Gln Ser Ala His Xaa *
      65          70          75 76

```

<210> 1049

<211> 79

<212>Amino acid

<213> Homo sapiens

<400> 1049

```

Glu Asn Ile Ala Glu Glu Tyr Ala Thr Lys Arg Tyr Arg Ser Asn Val
 1           5           10           15
Ile Asn Trp Gly Met Leu Pro Leu Gln Met Ala Glu Val Pro Thr Phe
          20          25          30
Glu Val Gly Asp Tyr Ile Tyr Ile Pro Gly Ile Lys Ala Ala Leu Asp
      35          40          45
Asn Pro Gly Thr Thr Phe Lys Gly Tyr Val Ile His Glu Asp Ala Pro
      50          55          60
Val Thr Glu Ile Thr Leu Tyr Met Glu Ser Gln Glu Ala Arg Thr
      65          70          75 79

```

<210> 1050
 <211> 99
 <212>Amino acid
 <213> Homo sapiens

<400> 1050
 Leu Gln Thr Glu Ile Gly Ser Met Val Tyr Ala Val Lys Pro Gly Asp
 1 5 10 15
 Gly Ser Ala Arg Glu Gln Ala Ala Ser Cys Gln Arg Val Ile Gly Gly
 20 25 30
 Leu Ala Asn Ile Ala Glu Glu Tyr Ala Thr Lys Arg Tyr Arg Ser Asn
 35 40 45
 Val Ile Asn Trp Gly Met Leu Pro Leu Gln Met Ala Glu Val Pro Thr
 50 55 60
 Phe Glu Val Gly Asp Tyr Ile Tyr Ile Leu Gly Phe Lys Ala Ala Lys
 65 70 75 80
 Tyr Ser Pro Gly Thr Ala Phe Thr Val Tyr Ala Ile Ser Gly Tyr Gly
 85 90 95
 Pro Arg Ile
 99

<210> 1051
 <211> 114
 <212>Amino acid
 <213> Homo sapiens

<400> 1051
 Thr Leu Glu Asp Leu Leu Met Ala Leu Asp Gly Glu Gln His Leu Gln
 1 5 10 15
 Gln Gln Val Ser Glu Lys Val Leu Ala Asp Asn Val Leu Ile Ala Pro
 20 25 30
 Gly Ser Val Lys Pro Asp Ala Thr Phe Trp Ser Ala Leu Ile Gln Asp
 35 40 45
 Arg Tyr Asn Val Met Thr Cys Ile Glu Lys Asp Ala Cys Val Leu Val
 50 55 60
 Glu Gln Asp Leu Asn Ser Asp Gly Gln Ala Glu Arg Ile Leu Phe Ala
 65 70 75 80
 Phe Asn Asp Asp Arg Val Ile Val Tyr Gly Phe Asp Ser Asp Arg Lys
 85 90 95
 Glu Trp Asp Ala Leu Asp Met Ser Leu Leu Pro Asn Glu Ile Thr Lys
 100 105 110
 Glu Lys
 114

<210> 1052
 <211> 210
 <212>Amino acid
 <213> Homo sapiens

<400> 1052

```

Glu Ser Asn Ser Arg Cys Arg Lys Met Pro Gly Glu Arg Cys Arg Gly
 1          5          10          15
Gly Pro Ala Arg Leu Ser Leu Leu Leu Asp Leu Pro Thr Arg Pro Leu
          20          25          30
Pro His Pro Arg Gln Val Ile Asp Phe Gly Ser Ala Ser Ile Phe Ser
          35          40          45
Glu Val Arg Tyr Val Lys Glu Pro Tyr Ile Gln Ser Arg Phe Tyr Arg
          50          55          60
Ala Pro Glu Ile Leu Leu Gly Leu Pro Phe Cys Glu Lys Val Asp Val
 65          70          75          80
Trp Ser Leu Gly Cys Val Met Asp Glu Leu His Leu Gly Trp Pro Leu
          85          90          95
Tyr Pro Gly Asn Asn Glu Tyr Asp Gln Val Arg Tyr Ile Cys Glu Thr
          100          105          110
Gln Gly Leu Pro Lys Pro His Leu Leu His Ala Ala Cys Lys Ala His
          115          120          125
His Phe Phe Lys Arg Asn Pro His Pro Asp Ala Ala Asn Pro Trp Gln
          130          135          140
Leu Lys Ser Ser Ala Asp Tyr Leu Ala Glu Thr Lys Val Arg Pro Leu
145          150          155          160
Glu Arg Arg Lys Tyr Met Leu Lys Ser Leu Asp Gln Ile Glu Thr Val
          165          170          175
Asn Gly Gly Ser Val Ala Ser Arg Leu Thr Phe Pro Asp Arg Glu Ala
          180          185          190
Leu Ala Glu His Ala Asp Leu Lys Ser Met Val Glu Leu Met Lys Arg
          195          200          205
Leu Leu
210

```

```

<210> 1053
<211> 100
<212>Amino acid
<213> Homo sapiens

```

```

<400> 1053
Arg Leu Val Lys Lys Arg Val Glu Cys Arg Gln Cys Gly Lys Ala Gly
 1          5          10          15
Arg Asn Gln Ser Thr Leu Lys Thr His Met Arg Ser His Thr Gly Glu
          20          25          30
Lys Pro Tyr Glu Cys Asp His Cys Gly Lys Ala Phe Ser Ile Gly Ser
          35          40          45
Asn Leu Asn Val His Arg Arg Ile His Thr Gly Glu Lys Pro Tyr Glu
          50          55          60
Cys Leu Val Cys Gly Glu Ala Phe Ser Asp His Ser Ser Leu Arg Ser
 65          70          75          80
His Val Lys Thr His Arg Gly Glu Lys Leu Phe Val Ser Ser Val Trp
          85          90          95
Lys Arg Leu Gln
          100

```

```

<210> 1054
<211> 194
<212>Amino acid
<213> Homo sapiens

```

<400> 1054

```

Cys Gly Pro Gly Phe Ser Leu Ser Phe Phe Phe Leu Arg Trp Ser Phe
 1           5           10           15
Ala Leu Val Ala Gln Ala Gly Val Gln Trp His Asp Leu Gly Ser Leu
          20           25           30
Gln Pro Pro Ala Pro Gly Phe Lys Arg Phe Ser Ser Leu Ser Leu Leu
          35           40           45
Ser Arg Trp Asp Tyr Arg His Ala His Ala Arg Leu Ile Phe Val Phe
          50           55           60
Leu Val Glu Met Gly Phe Leu His Val Gly Gln Ala Gly Leu Glu Leu
          65           70           75           80
Pro Thr Ser Gly Asp Pro Pro Thr Ser Ala Ser Gln Ser Ala Arg Ile
          85           90           95
Thr Gly Val Thr Thr Pro Leu Gly Thr Phe Phe Phe Phe Leu Arg Trp
          100          105          110
Ser Phe Ala Leu Val Ala Gln Ala Gly Gly Gln Cys Leu Asp Leu Gly
          115          120          125
Ser Leu Gln Leu Pro Pro Pro Gly Phe Lys Arg Leu Val Cys His Phe
          130          135          140
Gln Thr Pro Gln Lys His Arg Cys Ser Cys Gln Ala Pro Gly Asp Cys
          145          150          155          160
Leu Gln Glu Ser Phe Val Met Thr Gly Cys Val Leu Arg Thr Val Ser
          165          170          175
Glu Ser Val Gln Arg Ala Asn Ala Gly Ala Gly Ala Glu Thr Val Gln
          180          185          190
Gly Leu
          194

```

<210> 1055

<211> 351

<212>Amino acid

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(351)

<223> X = any amino acid or stop code

<400> 1055

```

Met Gly Asn Ala Ala Ala Lys Lys Gly Ser Glu Gln Glu Ser Val
 1           5           10           15
Lys Glu Phe Leu Ala Lys Ala Lys Glu Asp Phe Leu Lys Lys Trp Glu
          20           25           30
Ser Pro Ala Gln Asn Thr Ala His Leu Asp Gln Phe Glu Arg Ile Lys
          35           40           45
Thr Leu Gly Thr Gly Ser Phe Gly Arg Val Met Leu Val Lys His Lys
          50           55           60
Glu Thr Gly Asn His Tyr Ala Met Lys Ile Leu Asp Xaa Gln Lys Val
          65           70           75           80
Gly Lys Leu Lys Gln Ile Glu His Thr Leu Asn Glu Lys Arg Ile Leu
          85           90           95
Gln Ala Val Asn Phe Pro Phe Leu Val Lys Leu Glu Phe Ser Phe Lys
          100          105          110
Asp Asn Ser Asn Leu Tyr Met Val Met Glu Tyr Val Pro Gly Gly Glu
          115          120          125
Met Phe Ser His Leu Arg Arg Ile Gly Arg Phe Ser Glu Pro His Ala
          130          135          140
Arg Phe Tyr Ala Ala Gln Ile Val Leu Thr Phe Glu Tyr Leu His Ser

```

```

145          150          155          160
Leu Asp Leu Ile Tyr Arg Asp Leu Lys Pro Glu Asn Leu Leu Ile Asp
          165          170          175
Gln Gln Gly Tyr Ile Gln Val Thr Asp Phe Gly Phe Ala Lys Arg Val
          180          185          190
Lys Gly Arg Thr Trp Thr Leu Cys Gly Thr Pro Glu Tyr Leu Ala Pro
          195          200          205
Glu Ile Ile Leu Ser Lys Gly Tyr Asn Lys Ala Val Asp Trp Trp Ala
          210          215          220
Leu Gly Val Leu Ile Tyr Glu Met Ala Ala Gly Tyr Pro Pro Phe Phe
225          230          235          240
Ala Asp Gln Pro Ile Gln Ile Tyr Glu Lys Ile Val Ser Gly Lys Val
          245          250          255
Arg Phe Pro Ser His Phe Ser Ser Asp Leu Lys Asp Leu Leu Arg Asn
          260          265          270
Leu Leu Gln Val Asp Leu Thr Lys Arg Phe Gly Asn Leu Lys Asn Gly
          275          280          285
Val Asn Asp Ile Lys Asn His Lys Trp Phe Ala Thr Thr Asp Trp Ile
          290          295          300
Ala Ile Tyr Gln Arg Lys Val Glu Ala Pro Phe Ile Pro Lys Phe Lys
305          310          315          320
Gly Pro Gly Asp Thr Ser Asn Phe Asp Asp Tyr Glu Glu Glu Glu Ile
          325          330          335
Arg Val Ser Ile Asn Glu Lys Phe Gly Lys Glu Phe Ser Glu Phe
          340          345          350 351

```

<210> 1056

<211> 136

<212>Amino acid

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(136)

<223> X = any amino acid or stop code

<400> 1056

```

Ser Ser Ser Arg Ser Ser His Gly Asp Ser Pro Pro His Ser Gln Thr
 1          5          10          15
Pro Cys Asp Thr Asn Arg Gly Leu Asp Thr Lys His Xaa Asp Ser Gln
          20          25          30
Ser Ile Glu Glu Lys Asp Ser Ser Gln Ser Glu Xaa Asn Arg Ile Glu
          35          40          45
Arg Arg Lys Glu Val Glu Arg Ile Leu Gln Thr Asn Ser Asp Tyr Met
          50          55          60
Xaa His Trp Ser Asn Xaa Pro Glu Asn Ile Leu Pro Lys Lys Phe Phe
65          70          75          80
Ser Lys His Gln Lys Cys Thr Ala Thr Leu Ser Met Arg Asn Thr Ser
          85          90          95
Ile Met Lys Lys Glu Gly Leu Phe Xaa Ala Gln Phe Pro Ser Leu Leu
          100          105          110
Leu Ser His Leu Pro Ala Val Gly Leu Gly Ile Tyr Thr Gly Thr His
          115          120          125
Leu Thr Thr Ser Thr Ser Thr Phe
130          135 136

```

<210> 1057

<211> 79

<212>Amino acid
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(79)
<223> X = any amino acid or stop code

<400> 1057

Thr	Phe	His	Ser	Ser	Leu	Glu	Lys	Asn	Ile	Leu	Gln	Pro	Cys	Arg	Xaa
1				5					10					15	
Arg	Arg	Ala	Ile	Cys	Leu	Pro	Leu	Leu	Leu	Xaa	Pro	Ser	Val	Pro	Leu
		20					25						30		
Leu	Ala	Pro	Gln	Tyr	Phe	Ser	Asp	Leu	Arg	Asn	Ser	Ile	Val	Asn	Ser
		35					40					45			
Gln	Pro	Pro	Glu	Lys	Gln	Gln	Ala	Met	His	Leu	Cys	Phe	Glu	Asn	Leu
		50				55					60				
Met	Glu	Gly	Ile	Glu	Arg	Asn	Leu	Leu	Thr	Lys	Asn	Arg	Asp	Arg	
65					70					75				79	

<210> 1058
<211> 458
<212>Amino acid
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(458)
<223> X = any amino acid or stop code

<400> 1058

Gly	Thr	Ser	Gly	Val	Gln	Gln	Glu	Ile	Ser	Arg	Leu	Thr	Asn	Glu	Asn
1				5					10					15	
Leu	Asp	Leu	Lys	Glu	Leu	Val	Glu	Lys	Leu	Glu	Lys	Asn	Glu	Arg	Lys
		20					25					30			
Leu	Lys	Lys	Gln	Leu	Lys	Ile	Tyr	Met	Lys	Lys	Ala	Gln	Asp	Leu	Glu
		35					40					45			
Ala	Ala	Gln	Ala	Leu	Ala	Gln	Ser	Glu	Arg	Lys	Arg	His	Glu	Leu	Asn
		50				55					60				
Arg	Gln	Val	Thr	Val	Gln	Arg	Lys	Glu	Lys	Asp	Phe	Gln	Gly	Met	Leu
65					70				75					80	
Glu	Tyr	His	Lys	Glu	Asp	Glu	Ala	Leu	Leu	Ile	Arg	Asn	Leu	Val	Thr
		85							90					95	
Asp	Leu	Lys	Pro	Gln	Met	Leu	Ser	Gly	Thr	Val	Pro	Cys	Leu	Pro	Ala
		100						105					110		
Tyr	Ile	Leu	Tyr	Met	Cys	Ile	Arg	His	Ala	Asp	Tyr	Thr	Asn	Asp	Asp
		115					120					125			
Leu	Lys	Val	His	Ser	Leu	Leu	Thr	Ser	Thr	Ile	Asn	Gly	Ile	Lys	Lys
		130					135				140				
Val	Leu	Lys	Lys	His	Asn	Asp	Asp	Phe	Glu	Met	Thr	Ser	Phe	Trp	Leu
145				150					155					160	
Ser	Asn	Thr	Cys	Arg	Leu	Leu	His	Cys	Leu	Lys	Gln	Tyr	Ser	Gly	Asp
			165						170					175	
Glu	Gly	Phe	Met	Thr	Gln	Asn	Thr	Ala	Lys	Gln	Asn	Glu	His	Cys	Leu
		180						185						190	

```

Lys Asn Phe Asp Leu Thr Glu Tyr Arg Gln Val Leu Ser Asp Leu Ser
      195      200      205
Ile Gln Ile Tyr Gln Gln Leu Ile Lys Ile Ala Glu Gly Val Leu Gln
      210      215      220
Pro Met Ile Val Ser Ala Met Leu Glu Asn Xaa Ser Ile Gln Gly Leu
      225      230      235      240
Ser Gly Val Lys Pro Thr Gly Ser Gln Lys His Ser Ser Ser Met Ala
      245      250      255
Asp Glu Asp Asn Ser Tyr Arg Leu Glu Ala Ile Ile Arg Gln Met Asn
      260      265      270
Ala Phe His Thr Val Met Cys Asp Gln Gly Leu Asp Pro Glu Ile Ile
      275      280      285
Leu Gln Val Phe Lys Gln Leu Phe Tyr Met Ile Asn Ala Val Thr Leu
      290      295      300
Asn Asp Leu Leu Leu Arg Lys Asp Val Cys Ser Trp Ser Thr Gly Met
      305      310      315      320
Gln Leu Arg Tyr Asn Ile Ser Gln Leu Glu Trp Leu Arg Gly Arg
      325      330      335
Asn Leu His Gln Ser Gly Ala Val Gln Thr Met Glu Pro Leu Ile Gln
      340      345      350
Ala Ala Gln Leu Leu Gln Leu Lys Lys Lys Thr Gln Glu Asp Ala Glu
      355      360      365
Ala Ile Cys Ser Leu Cys Thr Ser Leu Ser Thr Gln Gln Ile Val Lys
      370      375      380
Ile Leu Asn Leu Tyr Thr Pro Leu Asn Glu Phe Glu Glu Arg Val Thr
      385      390      395      400
Val Ala Phe Ile Arg Thr Ile Gln Ala Gln Leu Gln Glu Arg Asn Asp
      405      410      415
Pro Gln Gln Leu Leu Leu Asp Ala Lys His Met Phe Pro Val Leu Phe
      420      425      430
Pro Phe Asn Pro Ser Ser Leu Thr Met Asp Ser Ile His Ile Pro Ala
      435      440      445
Cys Leu Asn Leu Glu Phe Leu Asn Glu Val
      450      455      458

```

<210> 1059

<211> 82

<212>Amino acid

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(82)

<223> X = any amino acid or stop code

<400> 1059

```

His Glu Glu Asn Thr Ile Leu Lys Ala Ala Glu Val Gln Val Pro Pro
  1      5      10      15
Lys Xaa Val Val Thr Pro Glu Ala Lys Ala Phe Ile Xaa Arg Cys Leu
      20      25      30
Ala Tyr Gln Lys Glu Asp Cys Ile Asp Ala Gln Gln Leu Ala Cys Asp
      35      40      45
Pro Tyr Leu Leu His Tyr Ile Gln Lys Leu Val Phe Val Ser Ser Pro
      50      55      60
Ala Gly Ala Ala Ile Ala Ser Thr Phe Gly Val Ser Asn Ser Cys Ser
      65      70      75      80
Ser Asn
      82

```

<210> 1060
 <211> 277
 <212>Amino acid
 <213> Homo sapiens

<400> 1060
 Gly Thr Thr Asp Glu Ile Met Thr Arg Trp Ala Arg Val Ser Thr Thr
 1 5 10 15
 Tyr Asn Lys Arg Pro Leu Pro Ala Thr Ser Trp Glu Asp Met Lys Lys
 20 25 30
 Gly Ser Phe Glu Gly Thr Ser Gln Asn Leu Pro Lys Arg Lys Gln Leu
 35 40 45
 Glu Ala Asn Arg Leu Ser Leu Lys Asn Asp Ala Pro Gln Ala Lys His
 50 55 60
 Lys Lys Asn Lys Lys Lys Lys Glu Tyr Leu Asn Glu Asp Val Asn Gly
 65 70 75 80
 Phe Met Glu Tyr Leu Arg Gln Asn Ser Gln Met Val His Asn Gly Gln
 85 90 95
 Ile Ile Ala Thr Asp Ser Glu Glu Val Arg Glu Glu Ile Ala Val Ala
 100 105 110
 Leu Lys Lys Asp Ser Arg Arg Glu Gly Arg Arg Leu Lys Arg Gln Ala
 115 120 125
 Ala Lys Lys Asn Ala Met Val Cys Phe His Cys Arg Lys Pro Gly His
 130 135 140
 Gly Ile Ala Asp Cys Pro Ala Ala Leu Glu Asn Gln Asp Met Gly Thr
 145 150 155 160
 Gly Ile Cys Tyr Arg Cys Gly Ser Thr Glu His Glu Ile Thr Lys Cys
 165 170 175
 Lys Ala Lys Val Asp Pro Ala Leu Gly Glu Phe Pro Phe Ala Lys Cys
 180 185 190
 Phe Val Cys Gly Glu Met Gly His Leu Ser Arg Ser Cys Pro Asp Asn
 195 200 205
 Pro Lys Gly Leu Tyr Ala Asp Gly Gly Gly Cys Lys Leu Cys Gly Ser
 210 215 220
 Val Glu His Leu Lys Lys Asp Cys Pro Glu Ser Gln Asn Ser Glu Arg
 225 230 235 240
 Met Val Thr Val Gly Arg Trp Ala Lys Gly Met Ser Ala Asp Tyr Glu
 245 250 255
 Glu Ile Leu Asp Val Pro Lys Pro Gln Lys Pro Lys Thr Lys Ile Pro
 260 265 270
 Lys Val Val Asn Phe
 275 277

<210> 1061
 <211> 95
 <212>Amino acid
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(95)
 <223> X = any amino acid or stop code

<400> 1061

```

Asp His Val Arg Lys Ser Leu Leu Lys Asn Arg Ala Glu Asn Ile Val
 1          5          10          15
Asn Ile Phe Lys Cys Asn Val Val Ser Leu Pro Asn Leu Pro Ala Phe
          20          25          30
Gly Gln Ala Gln Trp Leu Thr Pro Val Ile Pro Ala Leu Trp Glu Ala
          35          40          45
Glu Val Gly Gly Ser Xaa Gly Gln Glu Ile Glu Thr Ile Leu Ala Asn
          50          55          60
Ala Val Lys Ser Pro Phe Leu Leu Lys Ile Gln Lys Lys Lys Ile Ser
          65          70          75          80
Arg Ala Trp Trp Arg Ala Pro Val Ser Pro Arg Tyr Ser Gly Gly
          85          90          95

```

<210> 1062

<211> 259

<212>Amino acid

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(259)

<223> X = any amino acid or stop code

<400> 1062

```

Ser Asp Ala Trp Ala Asp Ala Trp Ala Arg Ser Leu Ser Val Ser Pro
 1          5          10          15
Ser Ser Tyr Pro Glu Leu His Thr Glu Val Pro Leu Ser Val Leu Ile
          20          25          30
Leu Gly Leu Leu Val Val Phe Ile Leu Ser Val Cys Phe Gly Ala Gly
          35          40          45
Leu Phe Val Phe Val Leu Lys Arg Arg Lys Gly Val Pro Ser Val Pro
          50          55          60
Arg Asn Thr Asn Asn Leu Asp Val Ser Ser Phe Gln Leu Gln Tyr Gly
          65          70          75          80
Ser Tyr Asn Thr Glu Thr His Asp Lys Thr Asp Gly His Val Tyr Asn
          85          90          95
Tyr Ile Pro Pro Pro Val Val Gln Met Cys Gln Asn Pro Ile Tyr Met
          100          105          110
Ala Gly Arg Glu Gly Arg Pro Ser Ser Leu Leu Pro Lys Pro Gly Lys
          115          120          125
Glu Phe Gln Leu Leu Gly Asn Leu Glu Glu Lys Lys Glu Glu Pro Ala
          130          135          140
Thr Pro Ala Tyr Thr Ile Ser Ala Thr Glu Leu Leu Glu Lys Gln Ala
          145          150          155          160
Thr Pro Arg Glu Pro Glu Leu Leu Tyr Gln Asn Ile Ala Glu Pro Ser
          165          170          175
Gln Gly Thr Ser Thr Ala Gln Ala Xaa Ser Thr Ile Thr Phe Val Pro
          180          185          190
Tyr Leu Lys Gly Gln Phe Ala Pro Ser Tyr Glu Ser Arg Arg Gln Asn
          195          200          205
Gln Asp Arg Ile Asn Lys Thr Val Leu Tyr Gly Thr Pro Arg Lys Cys
          210          215          220
Phe Val Gly Gln Ser Lys Pro Asn His Pro Leu Leu Gln Ala Lys Pro
          225          230          235          240
Gln Ser Glu Pro Asp Tyr Leu Glu Val Leu Glu Lys Gln Thr Ala Ile
          245          250          255
Ser Gln Leu
          259

```

<210> 1063
 <211> 498
 <212> Amino acid
 <213> Homo sapiens

<400> 1063
 Ala Leu Cys His Ile Ala Val Gly Gln Gln Met Asn Leu His Trp Leu
 1 5 10 15
 His Lys Ile Gly Leu Val Val Ile Leu Ala Ser Thr Val Val Ala Met
 20 25 30
 Ser Ala Val Ala Gln Leu Trp Glu Asp Glu Trp Glu Val Leu Leu Ile
 35 40 45
 Ser Leu Gln Gly Thr Ala Pro Phe Leu His Val Gly Ala Val Ala Ala
 50 55 60
 Val Thr Met Leu Ser Trp Ile Val Ala Gly Gln Phe Ala Arg Ala Glu
 65 70 75 80
 Arg Thr Ser Ser Gln Val Thr Ile Leu Cys Thr Phe Phe Thr Val Val
 85 90 95
 Phe Ala Leu Tyr Leu Ala Pro Leu Thr Ile Ser Ser Pro Cys Ile Met
 100 105 110
 Glu Lys Lys Asp Leu Gly Pro Lys Pro Ala Leu Ile Gly His Arg Gly
 115 120 125
 Ala Pro Met Leu Ala Pro Glu His Thr Leu Met Ser Phe Arg Lys Ala
 130 135 140
 Leu Glu Gln Lys Leu Tyr Gly Leu Gln Ala Asp Ile Thr Ile Ser Leu
 145 150 155 160
 Asp Gly Val Pro Phe Leu Met His Asp Thr Thr Leu Arg Arg Thr Thr
 165 170 175
 Asn Val Glu Glu Glu Phe Pro Glu Leu Ala Arg Arg Pro Ala Ser Met
 180 185 190
 Leu Asn Trp Thr Thr Leu Gln Arg Leu Asn Ala Gly Gln Trp Phe Leu
 195 200 205
 Lys Thr Asp Pro Phe Trp Thr Ala Ser Ser Leu Ser Pro Ser Asp His
 210 215 220
 Arg Glu Ala Gln Asn Gln Ser Ile Cys Ser Leu Ala Glu Leu Leu Glu
 225 230 235 240
 Leu Ala Lys Gly Asn Ala Thr Leu Leu Leu Asn Leu Arg Asp Pro Pro
 245 250 255
 Arg Glu His Pro Tyr Arg Ser Ser Phe Ile Asn Val Thr Leu Glu Ala
 260 265 270
 Val Leu His Ser Gly Phe Pro Gln His Gln Val Met Trp Leu Pro Ser
 275 280 285
 Arg Gln Arg Pro Leu Val Arg Lys Val Ala Pro Gly Phe Gln Gln Thr
 290 295 300
 Ser Gly Ser Lys Glu Ala Val Ala Ser Leu Arg Arg Gly His Ile Gln
 305 310 315 320
 Arg Leu Asn Leu Arg Tyr Thr Gln Val Ser Arg Gln Glu Leu Arg Asp
 325 330 335
 Tyr Ala Ser Trp Asn Leu Ser Val Asn Leu Tyr Thr Val Asn Ala Pro
 340 345 350
 Trp Leu Phe Ser Leu Leu Trp Cys Ala Gly Val Pro Ser Val Thr Ser
 355 360 365
 Asp Asn Ser His Thr Leu Ser Gln Val Pro Ser Pro Leu Trp Ile Met
 370 375 380
 Pro Pro Asp Glu Tyr Cys Leu Met Trp Val Thr Ala Asp Leu Val Ser
 385 390 395 400
 Phe Thr Leu Ile Val Gly Ile Phe Val Leu Gln Lys Trp Arg Leu Gly
 405 410 415
 Gly Ile Arg Ser Tyr Asn Pro Glu Gln Ile Met Leu Ser Ala Ala Val

```

          420          425          430
Arg Arg Thr Ser Arg Asp Val Ser Ile Met Lys Glu Lys Leu Ile Phe
          435          440          445
Ser Glu Ile Ser Asp Gly Val Glu Val Ser Asp Val Leu Ser Val Cys
          450          455          460
Ser Asp Asn Ser Tyr Asp Thr Tyr Ala Asn Ser Thr Ala Thr Pro Val
          465          470          475          480
Gly Pro Arg Gly Gly Gly Ser His Thr Lys Thr Leu Ile Glu Arg Ser
          485          490          495
Gly Arg
          498

```

```

<210> 1064
<211> 374
<212> Amino acid
<213> Homo sapiens

```

```

          <400> 1064
Asn Ser Ala Asp Tyr Gly Asp Gly Pro Asp Ser Ser Asp Ala Asp Pro
  1          5          10          15
Asp Ser Gly Thr Glu Glu Gly Val Leu Asp Phe Ser Asp Pro Phe Ser
          20          25          30
Thr Glu Val Lys Pro Arg Ile Leu Leu Met Gly Leu Arg Arg Ser Gly
          35          40          45
Lys Ser Ser Ile Gln Lys Val Val Phe His Lys Met Ser Pro Asn Glu
          50          55          60
Thr Leu Phe Leu Glu Ser Thr Asn Lys Ile Cys Arg Glu Asp Val Ser
          65          70          75          80
Asn Ser Ser Phe Val Asn Phe Gln Ile Trp Asp Phe Pro Gly Gln Ile
          85          90          95
Asp Phe Phe Asp Pro Thr Phe Asp Tyr Glu Met Ile Phe Arg Gly Thr
          100          105          110
Gly Ala Leu Ile Phe Val Ile Asp Ser Gln Asp Asp Tyr Met Glu Ala
          115          120          125
Leu Ala Arg Leu His Leu Thr Val Thr Arg Ala Tyr Lys Val Asn Thr
          130          135          140
Asp Ile Asn Phe Glu Val Phe Ile His Lys Val Asp Gly Leu Ser Asp
          145          150          155          160
Asp His Lys Ile Glu Thr Gln Arg Asp Ile His Gln Arg Ala Asn Asp
          165          170          175
Asp Leu Ala Asp Ala Gly Leu Glu Lys Ile His Leu Ser Phe Tyr Leu
          180          185          190
Thr Ser Ile Tyr Asp His Ser Ile Phe Glu Ala Phe Ser Lys Val Val
          195          200          205
Gln Lys Leu Ile Pro Gln Leu Pro Thr Leu Glu Asn Leu Leu Asn Ile
          210          215          220
Phe Ile Ser Asn Ser Gly Ile Glu Lys Ala Phe Leu Phe Asp Val Val
          225          230          235          240
Ser Lys Ile Tyr Ile Ala Thr Asp Ser Thr Pro Val Asp Met Gln Thr
          245          250          255
Tyr Glu Leu Cys Cys Asp Met Ile Asp Val Val Ile Asp Ile Ser Cys
          260          265          270
Ile Tyr Gly Leu Lys Glu Asp Gly Ala Gly Thr Pro Tyr Asp Lys Glu
          275          280          285
Ser Thr Ala Ile Ile Lys Leu Asn Asn Thr Thr Val Leu Tyr Leu Lys
          290          295          300
Glu Val Thr Lys Phe Leu Ala Leu Val Cys Phe Val Arg Glu Glu Ser
          305          310          315          320
Phe Glu Arg Lys Gly Leu Ile Asp Tyr Asn Phe His Cys Phe Arg Lys

```

```

          325          330          335
Ala Ile His Glu Val Phe Glu Val Arg Met Lys Val Val Lys Ser Arg
          340          345          350
Lys Val Gln Asn Arg Leu Gln Lys Lys Lys Arg Ala Thr Pro Asn Gly
          355          360          365
Thr Pro Arg Val Leu Leu
          370          374

```

```

<210> 1065
<211> 278
<212>Amino acid
<213> Homo sapiens

```

```

<400> 1065
Arg Thr Arg Gly Arg Asp Pro Gly Ala Gly Phe Arg Arg Thr Ala Asn
 1          5          10          15
Lys Arg Cys Cys Arg Arg Arg Phe Leu Ile Gly Cys Gly Trp Leu Pro
          20          25          30
Leu Arg Ser Asp Trp Pro Leu Val Ser Lys Met Leu Ser Lys Gly Leu
          35          40          45
Lys Arg Lys Arg Glu Glu Glu Glu Glu Lys Glu Pro Leu Ala Val Asp
          50          55          60
Ser Trp Trp Leu Asp Pro Gly His Ala Ala Val Ala Gln Ala Pro Pro
          65          70          75          80
Ala Val Ala Ser Ser Ser Leu Phe Asp Leu Ser Val Leu Lys Leu His
          85          90          95
His Ser Leu Gln Ser Glu Pro Asp Leu Arg His Leu Val Leu Val
          100          105          110
Val Asn Thr Leu Arg Arg Ile Gln Ala Ser Met Ala Pro Ala Ala Ala
          115          120          125
Leu Pro Pro Val Pro Ser Pro Pro Ala Ala Pro Ser Val Ala Asp Asn
          130          135          140
Leu Leu Ala Ser Ser Asp Ala Ala Leu Ser Ala Ser Met Ala Ser Leu
          145          150          155          160
Leu Glu Asp Leu Ser His Ile Glu Gly Leu Ser Gln Ala Pro Gln Pro
          165          170          175
Leu Ala Asp Glu Gly Pro Pro Gly Arg Ser Ile Gly Gly Ala Ala Pro
          180          185          190
Ser Leu Gly Ala Leu Asp Leu Leu Gly Pro Ala Thr Gly Cys Leu Leu
          195          200          205
Asp Asp Gly Leu Glu Gly Leu Phe Glu Asp Ile Asp Thr Ser Met Tyr
          210          215          220
Asp Asn Glu Leu Trp Ala Pro Ala Ser Glu Gly Leu Lys Pro Gly Pro
          225          230          235          240
Glu Asp Gly Pro Gly Lys Glu Glu Ala Pro Glu Leu Asp Glu Ala Glu
          245          250          255
Leu Asp Tyr Leu Met Asp Val Leu Val Gly Thr Gln Ala Leu Glu Arg
          260          265          270
Pro Pro Gly Pro Gly Arg
          275          278

```

```

<210> 1066
<211> 502
<212>Amino acid
<213> Homo sapiens

```

```

<220>
<221> misc_feature

```

<222> (1)...(502)

<223> X = any amino acid or stop code

<400> 1066

```

Leu Gln Glu Val Lys Ala Arg Arg Asn Thr Leu His Lys Glu Lys Asp
 1           5           10           15
His Leu Val Asn Asp Tyr Glu Gln Asn Met Lys Leu Leu Gln Thr Lys
          20           25           30
Tyr Asp Ala Asp Ile Asn Leu Leu Lys Gln Glu His Ala Leu Ser Ala
          35           40           45
Ser Lys Ala Ser Ser Met Ile Glu Glu Leu Glu Gln Asn Val Cys Gln
 50           55           60
Leu Lys Gln Gln Leu Gln Glu Ser Glu Leu Gln Arg Lys Gln Gln Leu
 65           70           75           80
Arg Asp Gln Glu Asn Lys Phe Gln Met Glu Lys Ser His Leu Lys His
          85           90           95
Ile Tyr Glu Lys Lys Ala His Asp Leu Gln Ser Glu Leu Asp Lys Gly
          100          105          110
Lys Glu Asp Thr Gln Lys Lys Ile His Lys Phe Glu Glu Ala Leu Lys
          115          120          125
Trp Lys Lys Trp Arg Gln Ile Xaa Leu Asp Pro Asn Leu Leu Arg Glu
 130          135          140
Lys Gln Ser Lys Glu Phe Leu Trp Gln Leu Glu Asp Ile Arg Gln Arg
 145          150          155          160
Tyr Glu Gln Gln Ile Val Glu Leu Lys Leu Glu His Glu Gln Glu Lys
          165          170          175
Thr His Leu Leu Gln Gln His Asn Ala Glu Lys Asp Ser Leu Val Arg
          180          185          190
Asp His Glu Arg Glu Ile Glu Asn Leu Glu Lys Gln Leu Arg Ala Ala
 195          200          205
Asn Met Glu His Glu Asn Gln Ile Gln Glu Phe Lys Lys Arg Asp Ala
 210          215          220
Gln Val Ile Ala Asp Met Glu Ala Gln Val His Lys Leu Arg Glu Glu
 225          230          235          240
Leu Ile Asn Val Asn Ser Gln Arg Lys Gln Gln Leu Val Glu Leu Gly
          245          250          255
Leu Leu Arg Glu Glu Glu Lys Gln Arg Ala Thr Arg Glu His Glu Ile
          260          265          270
Val Val Asn Lys Leu Lys Ala Glu Ser Glu Lys Met Lys Ile Glu Leu
          275          280          285
Lys Lys Thr His Ala Ala Glu Thr Glu Met Thr Leu Glu Lys Ala Asn
 290          295          300
Ser Lys Leu Lys Gln Ile Glu Lys Glu Tyr Thr Gln Lys Leu Ala Lys
 305          310          315          320
Ser Ser Gln Ile Ile Ala Glu Leu Gln Thr Thr Ile Ser Ser Leu Lys
          325          330          335
Glu Glu Asn Ser Gln Gln Gln Leu Ala Ala Glu Arg Arg Leu Gln Asp
          340          345          350
Val Arg Gln Lys Phe Glu Asp Glu Lys Lys Gln Leu Ile Arg Asp Asn
          355          360          365
Asp Gln Ala Ile Lys Val Leu Gln Asp Glu Leu Glu Asn Arg Ser Asn
 370          375          380
Gln Val Arg Cys Ala Glu Lys Lys Leu Gln His Lys Glu Leu Glu Ser
 385          390          395          400
Gln Glu Gln Ile Thr Tyr Ile Arg Gln Glu Tyr Glu Thr Lys Leu Lys
          405          410          415
Gly Leu Met Pro Ala Ser Leu Arg Gln Glu Leu Glu Asp Thr Ile Ser
          420          425          430
Ser Leu Lys Ser Gln Val Asn Phe Leu Gln Lys Arg Ala Ser Ile Leu
          435          440          445

```

Gln Glu Glu Arg Asp Tyr Ile Ser Arg Gln Lys Val Gln Pro Ile Ser
 450 455 460
 Arg Xaa Leu His Glu Arg Met Gln Arg Met Arg Ile Ser Arg Leu Cys
 465 470 475 480
 Cys Gly Thr Ser Ser Ser Arg Phe Glu Asp Leu Asp Ile Val Asn Cys
 485 490 495
 Glu Ile Ser Gly Ile Phe
 500 502

<210> 1067

<211> 301

<212>Amino acid

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(301)

<223> X = any amino acid or stop code

<400> 1067

Val Ile Asn Leu Val Tyr Leu Ile Ser Ser Pro Arg Pro Glu Leu Lys
 1 5 10 15
 Pro Val Asp Lys Glu Ser Glu Val Val Met Lys Phe Pro Asp Gly Phe
 20 25 30
 Glu Lys Phe Ser Pro Pro Ile Leu Gln Leu Asp Glu Val Asp Phe Tyr
 35 40 45
 Tyr Asp Pro Lys His Val Ile Phe Ser Arg Leu Ser Val Ser Ala Asp
 50 55 60
 Leu Glu Ser Arg Ile Cys Val Val Gly Glu Asn Gly Ala Gly Lys Ser
 65 70 75 80
 Thr Met Leu Lys Leu Leu Leu Gly Asp Leu Ala Pro Val Arg Gly Ile
 85 90 95
 Arg His Ala His Arg Asn Leu Lys Ile Gly Tyr Phe Ser Gln His His
 100 105 110
 Val Glu Gln Leu Asp Leu Asn Val Gln Cys Leu Trp Glu Leu Ala Gly
 115 120 125
 His Ala Ser Phe Pro Gly Arg Pro Glu Glu Glu Tyr Arg His Gln Leu
 130 135 140
 Gly Phe Gly Met Gly Ile Ser Gly Glu Leu Ala Met Arg Pro Leu Cys
 145 150 155 160
 Gln Pro Val Leu Gly Ala Arg Lys Lys Pro Lys Trp Pro Phe Ala Gln
 165 170 175
 Met Asp Tyr Cys Pro Ala Pro Thr Phe Tyr Ile Leu Asp Glu Pro Thr
 180 185 190
 Asn His Leu Gly His Gly Arg Ala Ile Glu Ala Leu Gly Pro Cys Leu
 195 200 205
 Gln Thr Ile Ser Gly Val Gly Val Ile Leu Val Ser His Glu Xaa Ser
 210 215 220
 Ala Leu Ser Arg Leu Val Cys Arg Glu Leu Trp Val Cys Xaa Gly Gly
 225 230 235 240
 Gly Val Thr Arg Val Glu Arg Lys Asp Phe Asp Gln Tyr Arg Ala Leu
 245 250 255
 Leu Gln Gly Thr Val Ser Ala Arg Glu Gly Phe Pro Leu Gly Pro Pro
 260 265 270
 Arg Leu Lys Asp Ser Pro Arg Asp Met Gly Leu Val Ser Gln Thr Pro
 275 280 285
 Trp Gly His His Val Gly Tyr Pro Leu Pro Gly Arg Gly
 290 295 300 301

<210> 1068
 <211> 215
 <212>Amino acid
 <213> Homo sapiens

<400> 1068
 Cys Ser Ala Val Glu Val Lys Met Ala Ala Arg Thr Ala Phe Gly Ala
 1 5 10 15
 Val Cys Arg Arg Leu Trp Gln Gly Leu Gly Asn Phe Ser Val Asn Thr
 20 25 30
 Ser Lys Gly Asn Thr Ala Lys Asn Gly Gly Leu Leu Leu Ser Thr Asn
 35 40 45
 Met Lys Trp Val Gln Phe Ser Asn Leu His Val Asp Val Pro Lys Asp
 50 55 60
 Leu Thr Lys Pro Val Val Thr Ile Ser Asp Glu Pro Asp Ile Leu Tyr
 65 70 75 80
 Lys Arg Leu Ser Val Leu Val Lys Gly His Asp Lys Ala Val Leu Asp
 85 90 95
 Ser Tyr Glu Tyr Phe Ala Val Leu Ala Ala Lys Glu Leu Gly Ile Ser
 100 105 110
 Ile Lys Val His Glu Pro Pro Arg Lys Ile Glu Arg Phe Thr Leu Leu
 115 120 125
 Gln Ser Val His Ile Tyr Lys Lys His Arg Val Gln Tyr Glu Met Arg
 130 135 140
 Thr Leu Tyr Arg Cys Leu Glu Leu Glu His Leu Thr Gly Ser Thr Ala
 145 150 155 160
 Asp Val Tyr Leu Glu Tyr Ile Gln Arg Asn Leu Pro Glu Gly Val Ala
 165 170 175
 Met Glu Val Thr Lys Phe Cys Phe Phe Ile Phe Leu Thr Gln Leu Glu
 180 185 190
 Gln Leu Pro Glu His Ile Lys Glu Pro Ile Trp Glu Thr Leu Ser Glu
 195 200 205
 Glu Lys Glu Glu Ser Lys Ser
 210 215

<210> 1069
 <211> 274
 <212>Amino acid
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(274)
 <223> X = any amino acid or stop code

<400> 1069
 Asp Phe Trp Asp Thr Ala Gly Gln Glu Arg Phe Gln Ser Met His Ala
 1 5 10 15
 Ser Tyr Tyr His Lys Thr His Ala Cys Ile Met Val Phe Asp Val Gln
 20 25 30
 Arg Lys Val Thr His Arg Asn Leu Ser Thr Trp Tyr Thr Glu Leu Arg
 35 40 45
 Glu Phe Arg Pro Glu Ile Pro Cys Ile Val Val Ala Asn Lys Ile Asp
 50 55 60

```

Gly Gly Ala Ile Pro Ala Pro Gly Cys Xaa Gln Phe Thr Gly Asp Leu
65      70      75      80
Pro Ser Tyr Ile Ser Ser Ser Ile Pro Arg Ala Gly Asn Leu Gln Xaa
      85      90      95
Leu Val Leu Pro Pro Thr Ile Arg Tyr Asn Pro Trp Leu Val Ala Cys
      100      105      110
Ile Leu Pro Thr Leu Xaa Arg Ser Gln Leu Ser Arg Pro Ala Leu Phe
      115      120      125
Pro Arg His Arg Ser Leu Leu Thr Glu Leu Phe Leu Gly Pro Val Ser
      130      135      140
Gln Ser Ser Leu Pro Ile Pro Leu Ser Gly Met Lys Ala Ser Ser Gly
145      150      155      160
Pro Pro Leu Gln Thr Phe Phe Pro Ser Leu Asp Arg Gln Thr Asn Val
      165      170      175
Leu Pro Ser Leu Tyr Ala Asp Ile Asn Val Thr Gln Lys Ser Phe Asn
      180      185      190
Phe Ala Lys Lys Phe Ser Leu Pro Leu Tyr Phe Val Ser Ala Ala Asp
      195      200      205
Gly Thr Asn Val Val Lys Leu Phe Asn Asp Ala Ile Arg Leu Ala Val
      210      215      220
Ser Tyr Lys Gln Asn Ser Gln Asp Phe Met Asp Glu Ile Phe Gln Glu
225      230      235      240
Leu Glu Asn Phe Ser Leu Glu Gln Glu Glu Glu Asp Val Pro Asp Gln
      245      250      255
Glu Gln Ser Ser Ser Ile Glu Thr Pro Ser Glu Glu Val Ala Ser Pro
      260      265      270
His Ser
      274

```

<210> 1070

<211> 368

<212>Amino acid

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(368)

<223> X = any amino acid or stop code

<400> 1070

```

Gly Ala Thr Pro Leu Gly Ser Val Gly Gly Arg Thr Gly Lys Met Asp
1      5      10      15
Ala Ala Thr Leu Thr Tyr Asp Thr Leu Arg Phe Ala Glu Phe Glu Asp
      20      25      30
Phe Pro Glu Thr Ser Glu Pro Val Trp Ile Leu Gly Arg Lys Tyr Ser
      35      40      45
Ile Phe Thr Glu Lys Asp Glu Ile Leu Ser Asp Val Ala Ser Arg Leu
      50      55      60
Trp Phe Thr Tyr Arg Lys Asn Phe Pro Ala Ile Gly Gly Thr Gly Pro
65      70      75      80
Thr Ser Asp Thr Gly Trp Gly Cys Met Leu Arg Cys Gly Gln Met Ile
      85      90      95
Phe Ala Gln Ala Leu Val Cys Arg His Leu Gly Arg Asp Trp Arg Trp
      100      105      110
Thr Gln Arg Lys Arg Gln Pro Asp Ser Tyr Phe Ser Val Leu Asn Ala
      115      120      125
Phe Ile Asp Arg Lys Asp Ser Tyr Tyr Ser Ile His Gln Ile Ala Gln
130      135      140
Met Gly Val Gly Glu Gly Lys Ser Ile Gly Gln Trp Tyr Gly Pro Asn

```

```

145              150              155              160
Thr Val Ala Gln Val Leu Lys Lys Leu Ala Val Phe Asp Thr Trp Ser
              165              170              175
Ser Leu Ala Val His Ile Ala Met Asp Asn Thr Val Val Met Glu Glu
              180              185              190
Ile Arg Arg Leu Cys Arg Thr Ser Val Pro Cys Ala Gly Ala Thr Ala
              195              200              205
Phe Pro Ala Asp Ser Asp Arg His Cys Asn Gly Phe Pro Ala Gly Ala
              210              215              220
Glu Val Thr Asn Arg Pro Ser Pro Trp Arg Pro Leu Val Leu Leu Ile
225              230              235              240
Pro Leu Arg Leu Gly Leu Thr Asp Ile Asn Glu Ala Tyr Val Glu Thr
              245              250              255
Leu Lys His Cys Phe Met Met Pro Gln Ser Leu Gly Val Ile Gly Gly
              260              265              270
Lys Pro Asn Ser Ala His Tyr Phe Ile Gly Xaa Val Gly Glu Glu Leu
              275              280              285
Ile Tyr Leu Asp Pro His Thr Thr Gln Pro Ala Val Glu Pro Thr Asp
290              295              300
Gly Cys Phe Ile Pro Asp Glu Ser Phe His Cys Gln His Pro Pro Cys
305              310              315              320
Arg Met Ser Ile Ala Glu Leu Asp Pro Ser Ile Ala Val Val Arg Gly
              325              330              335
Gly His Leu Ser Thr Gln Ala Phe Gly Ala Glu Cys Cys Leu Gly Met
              340              345              350
Thr Arg Lys Thr Phe Gly Phe Leu Arg Phe Phe Phe Ser Met Leu Gly
              355              360              365              368

```

<210> 1071

<211> 81

<212>Amino acid

<213> Homo sapiens

<400> 1071

```

Ala Leu Cys Val Val Pro Phe Asn Thr Phe His Asn Asp Phe Leu Leu
 1              5              10              15
Leu Asp Lys Glu Gly Thr Leu Asp Pro Val Met Asp Ser Phe Ser Thr
              20              25              30
His Trp Thr Thr Ile Gly Pro Ala Asp Met Phe Phe Ser Phe Arg Gln
              35              40              45
His Tyr Lys Asn Phe Lys Ser His Gly Thr Asn Pro Ser Lys Ser Val
50              55              60
Trp Ala His Ala Thr Cys Gln Ser Cys Ala Phe Pro Asn Leu Leu Gly
65              70              75              80
Trp
81

```

<210> 1072

<211> 494

<212>Amino acid

<213> Homo sapiens

<400> 1072

Thr	Arg	Leu	Ala	Glu	Phe	Gly	Thr	Arg	Asp	Pro	Cys	Ala	Gln	Ala	Pro	1	5	10	15
Cys	Glu	Gln	Gln	Cys	Glu	Pro	Gly	Gly	Pro	Gln	Gly	Tyr	Ser	Cys	His	20	25	30	
Cys	Arg	Leu	Gly	Phe	Arg	Pro	Ala	Glu	Asp	Asp	Pro	His	Arg	Cys	Val	35	40	45	
Asp	Thr	Asp	Glu	Cys	Gln	Ile	Ala	Gly	Val	Cys	Gln	Gln	Met	Cys	Val	50	55	60	
Asn	Tyr	Val	Gly	Gly	Phe	Glu	Cys	Tyr	Cys	Ser	Glu	Gly	His	Glu	Leu	65	70	75	80
Glu	Ala	Asp	Gly	Ile	Ser	Cys	Ser	Pro	Ala	Gly	Ala	Met	Gly	Ala	Gln	85	90	95	
Ala	Ser	Gln	Asp	Leu	Gly	Asp	Glu	Leu	Leu	Asp	Asp	Gly	Glu	Asp	Glu	100	105	110	
Glu	Asp	Glu	Asp	Glu	Ala	Trp	Lys	Ala	Phe	Asn	Gly	Gly	Trp	Thr	Glu	115	120	125	
Met	Pro	Gly	Ile	Leu	Trp	Met	Glu	Pro	Thr	Gln	Pro	Pro	Asp	Phe	Ala	130	135	140	
Leu	Ala	Tyr	Arg	Pro	Ser	Phe	Pro	Glu	Asp	Arg	Glu	Pro	Gln	Ile	Pro	145	150	155	160
Tyr	Pro	Glu	Pro	Thr	Trp	Pro	Pro	Pro	Leu	Ser	Ala	Pro	Arg	Val	Pro	165	170	175	
Tyr	His	Ser	Ser	Val	Leu	Ser	Val	Thr	Arg	Pro	Val	Val	Val	Ser	Ala	180	185	190	
Thr	His	Pro	Thr	Leu	Pro	Ser	Ala	His	Gln	Pro	Pro	Val	Ile	Pro	Ala	195	200	205	
Thr	His	Pro	Ala	Leu	Ser	Arg	Asp	His	Gln	Ile	Pro	Val	Ile	Ala	Ala	210	215	220	
Asn	Tyr	Pro	Asp	Leu	Pro	Ser	Ala	Tyr	Gln	Pro	Gly	Ile	Leu	Ser	Val	225	230	235	240
Ser	His	Ser	Ala	Gln	Pro	Pro	Ala	His	Gln	Pro	Pro	Met	Ile	Ser	Thr	245	250	255	
Lys	Tyr	Pro	Glu	Leu	Phe	Pro	Ala	His	Gln	Ser	Pro	Met	Phe	Pro	Asp	260	265	270	
Thr	Arg	Val	Ala	Gly	Thr	Gln	Thr	Thr	His	Leu	Pro	Gly	Ile	Pro		275	280	285	
Pro	Asn	His	Ala	Pro	Leu	Val	Thr	Thr	Leu	Gly	Ala	Gln	Leu	Pro	Pro	290	295	300	
Gln	Ala	Pro	Asp	Ala	Leu	Val	Leu	Arg	Thr	Gln	Ala	Thr	Gln	Leu	Pro	305	310	315	320
Ile	Ile	Pro	Thr	Ala	Gln	Pro	Ser	Leu	Thr	Thr	Thr	Ser	Arg	Ser	Pro	325	330	335	
Val	Ser	Pro	Ala	His	Gln	Ile	Ser	Val	Pro	Ala	Ala	Thr	Gln	Pro	Ala	340	345	350	
Ala	Leu	Pro	Thr	Leu	Leu	Pro	Ser	Gln	Ser	Pro	Thr	Asn	Gln	Thr	Ser	355	360	365	
Pro	Ile	Ser	Pro	Thr	His	Pro	His	Ser	Lys	Ala	Pro	Gln	Ile	Pro	Arg	370	375	380	
Glu	Asp	Gly	Pro	Ser	Pro	Lys	Leu	Ala	Leu	Trp	Leu	Pro	Ser	Pro	Ala	385	390	395	400
Pro	Thr	Ala	Ala	Pro	Thr	Ala	Leu	Gly	Glu	Ala	Gly	Leu	Ala	Glu	His	405	410	415	
Ser	Gln	Arg	Asp	Asp	Arg	Trp	Leu	Leu	Val	Ala	Leu	Leu	Val	Pro	Thr	420	425	430	
Cys	Val	Phe	Leu	Val	Val	Leu	Leu	Ala	Leu	Gly	Ile	Val	Tyr	Cys	Thr	435	440	445	
Arg	Cys	Gly	Pro	His	Ala	Pro	Asn	Lys	Arg	Ile	Thr	Asp	Cys	Tyr	Arg	450	455	460	
Trp	Val	Ile	His	Ala	Gly	Ser	Lys	Ser	Pro	Thr	Glu	Pro	Met	Pro	Pro	465	470	475	480
Arg	Gly	Ser	Leu	Thr	Gly	Val	Gln	Thr	Cys	Arg	Thr	Ser	Val			485	490	494	

<210> 1073
 <211> 468
 <212> Amino acid
 <213> Homo sapiens

<400> 1073
 Leu Arg Val Arg Arg Arg Pro His Leu Pro Ala Pro Pro Ala Leu Arg
 1 5 10 15
 Ala Arg Arg Ser Asp Arg Arg Ser Ser Arg Ala Pro Ala Ala Phe Pro
 20 25 30
 Pro Arg Pro Pro His Ala Ser Pro Ala Pro Gly Pro Ala Met Ala Gln
 35 40 45
 Ala Val Trp Ser Arg Leu Gly Arg Ile Leu Trp Leu Ala Cys Leu Leu
 50 55 60
 Pro Trp Ala Pro Ala Gly Val Ala Ala Gly Leu Tyr Glu Leu Asn Leu
 65 70 75 80
 Thr Thr Asp Ser Pro Ala Thr Thr Gly Ala Val Val Thr Ile Ser Ala
 85 90 95
 Ser Leu Val Ala Lys Asp Asn Gly Ser Leu Ala Leu Pro Ala Asp Ala
 100 105 110
 His Leu Tyr Arg Phe His Trp Ile His Thr Pro Leu Val Leu Thr Gly
 115 120 125
 Lys Met Glu Lys Gly Leu Ser Ser Thr Ile Arg Val Val Gly His Val
 130 135 140
 Pro Gly Glu Phe Pro Val Ser Val Trp Val Thr Ala Ala Asp Cys Trp
 145 150 155 160
 Met Cys Gln Pro Val Ala Arg Gly Phe Val Val Leu Pro Ile Thr Glu
 165 170 175
 Phe Leu Val Gly Asp Leu Val Val Thr Gln Asn Thr Ser Leu Pro Trp
 180 185 190
 Pro Ser Ser Tyr Leu Thr Lys Thr Val Leu Lys Val Ser Phe Leu Leu
 195 200 205
 His Asp Pro Ser Asn Phe Leu Lys Thr Ala Leu Phe Leu Tyr Ser Trp
 210 215 220
 Asp Phe Gly Asp Gly Thr Gln Met Val Thr Glu Asp Ser Val Val Tyr
 225 230 235 240
 Tyr Asn Tyr Ser Ile Ile Gly Thr Phe Thr Val Lys Leu Lys Val Val
 245 250 255
 Ala Glu Trp Glu Glu Val Glu Pro Asp Ala Thr Arg Ala Val Lys Gln
 260 265 270
 Lys Thr Gly Asp Phe Ser Ala Ser Leu Lys Leu Gln Glu Thr Leu Arg
 275 280 285
 Gly Ile Gln Val Leu Gly Pro Thr Leu Ile Gln Thr Phe Gln Lys Met
 290 295 300
 Thr Val Thr Leu Asn Phe Leu Gly Ser Pro Pro Leu Thr Val Cys Trp
 305 310 315 320
 Arg Leu Lys Pro Glu Cys Leu Pro Leu Glu Glu Gly Glu Cys His Pro
 325 330 335
 Val Ser Val Ala Ser Thr Ala Tyr Asn Leu Thr His Thr Phe Arg Asp
 340 345 350
 Pro Gly Asp Tyr Cys Phe Ser Ile Arg Ala Glu Asn Ile Ile Ser Lys
 355 360 365
 Thr His Gln Tyr His Lys Ile Gln Val Trp Pro Ser Arg Ile Gln Pro
 370 375 380
 Ala Val Phe Ala Phe Pro Cys Ala Thr Leu Ile Thr Val Met Leu Ala
 385 390 395 400
 Phe Ile Met Tyr Met Thr Leu Arg Asn Ala Thr Gln Gln Lys Asp Met
 405 410 415
 Val Glu Asn Pro Glu Pro Pro Ser Gly Val Arg Cys Cys Cys Gln Met

```
<210> 1074
<211> 288
<212> Amino acid
<213> Homo sapiens
```

```
<210> 1075
<211> 273
<212> Amino acid
<213> Homo sapiens
```

<220>
 <221> misc_feature
 <222> (1)...(273)
 <223> X = any amino acid or stop code

<400> 1075
 Gly Ala Gly Ser Lys Ser Ser Met Met Gln Leu Met His Leu Glu Ser
 1 5 10 15
 Phe Tyr Glu Lys Pro Pro Pro Gly Leu Ile Lys Glu Asp Asp Thr Lys
 20 25 30
 Pro Glu Asp Cys Ile Pro Asp Val Pro Gly Asn Glu His Ala Arg Glu
 35 40 45
 Phe Leu Ala His Thr Pro Thr Lys Gly Leu Trp Met Pro Leu Glu Lys
 50 55 60
 Glu Val Lys Val Lys His Cys Thr Phe His Trp Ile Ala Ser Xaa Phe
 65 70 75 80
 Leu Gly Asp Gly Lys Phe Ile Pro Lys Ala Thr Arg Leu Lys Asp Val
 85 90 95
 Trp Val Ser Asn Xaa Phe Thr Cys Leu Phe Trp Asp Leu Thr Arg Phe
 100 105 110
 Ile His Asp Cys Ile Phe Phe Xaa Asn Trp Ser Leu Met Asn Lys Asn
 115 120 125
 Phe Asn Ile Ile Tyr Xaa Phe Phe Ile Ser Leu Arg Xaa Asn Thr Leu
 130 135 140
 Ile Leu Gln Lys Tyr Phe Pro Phe Ser Leu Leu Leu Gly Trp His Cys
 145 150 155 160
 Lys Trp Tyr Gly His Arg Thr Gly Tyr Lys Glu Cys Pro Phe Phe Ile
 165 170 175
 Lys Asp Asn Gln Lys Leu Gln Gln Phe Arg Val Ala His Glu Asp Phe
 180 185 190
 Met Tyr Asp Ile Ile Arg Asp Asn Lys Gln His Glu Lys Asn Val Arg
 195 200 205
 Ile Gln Gln Leu Lys Gln Leu Leu Glu Asp Ser Thr Ser Gly Glu Asp
 210 215 220
 Arg Ser Ser Ser Ser Ser Ser Glu Gly Lys Glu Lys His Lys Lys Lys
 225 230 235 240
 Lys Lys Lys Glu Lys His Lys Lys Arg Lys Lys Glu Lys Lys Lys Lys
 245 250 255
 Lys Lys Arg Lys His Lys Ser Ser Lys Ser Asn Glu Gly Ser Asp Ser
 260 265 270
 Glu
 273

<210> 1076
 <211> 815
 <212> Amino acid
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(815)
 <223> X = any amino acid or stop code

<400> 1076
 Glu Ile Ala Gly Ala Ala Ala Glu Asn Met Leu Gly Ser Leu Leu Cys

1	5	10	15
Leu Pro Gly Ser Gly Ser Val Leu Leu Asp Pro Cys Thr Gly Ser Thr			
20	25	30	
Ile Ser Glu Thr Thr Ser Glu Ala Trp Ser Val Glu Val Leu Pro Ser			
35	40	45	
Asp Ser Glu Ala Pro Asp Leu Lys Gln Glu Glu Arg Leu Gln Glu Leu			
50	55	60	
Glu Ser Cys Ser Gly Leu Gly Ser Thr Ser Asp Asp Thr Asp Val Arg			
65	70	75	80
Glu Val Ser Ser Arg Pro Ser Thr Pro Gly Leu Ser Val Val Ser Gly			
85	90	95	
Ile Ser Ala Thr Ser Glu Asp Ile Pro Asn Lys Ile Glu Asp Leu Arg			
100	105	110	
Ser Glu Cys Ser Ser Asp Phe Gly Gly Lys Asp Ser Val Thr Ser Pro			
115	120	125	
Asp Met Asp Glu Ile Thr His Asp Phe Leu Tyr Ile Leu Gln Pro Lys			
130	135	140	
Gln His Phe Gln His Ile Glu Ala Glu Ala Asp Met Arg Ile Gln Leu			
145	150	155	160
Ser Ser Ser Ala His Gln Leu Thr Ser Pro Pro Ser Gln Ser Glu Ser			
165	170	175	
Leu Leu Ala Met Phe Asp Pro Leu Ser Ser His Glu Gly Ala Ser Ala			
180	185	190	
Val Val Arg Pro Lys Val His Tyr Ala Arg Pro Ser His Pro Pro Pro			
195	200	205	
Asp Pro Pro Ile Leu Glu Gly Ala Val Gly Gly Asn Glu Ala Arg Leu			
210	215	220	
Pro Asn Phe Gly Ser Pro Met Phe Xaa Leu Pro Ala Glu Met Glu Ala			
225	230	235	240
Phe Lys Gln Arg His Ser Tyr Thr Pro Glu Arg Leu Val Arg Ser Arg			
245	250	255	
Ser Ser Asp Ile Val Ser Ser Val Arg Arg Pro Met Ser Asp Pro Ser			
260	265	270	
Trp Asn Arg Arg Pro Gly Asn Glu Glu Arg Glu Leu Pro Pro Ala Ala			
275	280	285	
Ala Ile Gly Ala Thr Ser Leu Val Ala Ala Pro His Ser Ser Ser Ser			
290	295	300	
Ser Pro Ser Lys Asp Ser Ser Arg Gly Glu Thr Glu Glu Arg Lys Asp			
305	310	315	320
Ser Asp Asp Glu Lys Ser Asp Arg Asn Arg Pro Trp Trp Arg Lys Arg			
325	330	335	
Phe Val Ser Ala Met Pro Lys Ala Pro Ile Pro Phe Arg Lys Lys Glu			
340	345	350	
Lys Gln Glu Lys Asp Lys Asp Asp Leu Gly Pro Asp Arg Phe Ser Thr			
355	360	365	
Leu Thr Asp Asp Pro Ser Pro Arg Leu Ser Ala Gln Ala Gln Val Ala			
370	375	380	
Glu Asp Ile Leu Asp Lys Tyr Arg Asn Ala Ile Lys Arg Thr Ser Pro			
385	390	395	400
Ser Asp Gly Ala Met Ala Asn Tyr Glu Ser Thr Glu Val Met Gly Asp			
405	410	415	
Gly Glu Ser Ala His Asp Ser Pro Arg Asp Glu Ala Leu Gln Asn Ile			
420	425	430	
Ser Ala Asp Asp Leu Pro Asp Ser Ala Ser Gln Ala Ala His Pro Gln			
435	440	445	
Asp Ser Ala Phe Ser Tyr Arg Asp Ala Lys Lys Lys Leu Arg Leu Ala			
450	455	460	
Leu Cys Ser Ala Asp Ser Val Ala Phe Pro Val Leu Thr His Ser Thr			
465	470	475	480
Arg Asn Gly Leu Pro Asp His Thr Asp Pro Glu Asp Asn Glu Ile Val			
485	490	495	
Cys Phe Leu Lys Val Gln Ile Ala Glu Ala Ile Asn Leu Gln Asp Lys			
500	505	510	
Asn Leu Met Ala Gln Leu Gln Glu Thr Met Arg Cys Val Cys Arg Phe			

515	520	525
Asp Asn Arg Thr Cys Arg Lys Leu Leu Ala Ser Ile Ala Glu Asp Tyr		
530	535	540
Arg Lys Arg Ala Pro Tyr Ile Ala Tyr Leu Thr Arg Cys Arg Gln Gly		
545	550	555
Leu Gln Thr Thr Gln Ala His Leu Glu Arg Leu Leu Gln Arg Val Leu		
565	570	575
Arg Asp Lys Glu Val Ala Asn Arg Tyr Phe Thr Thr Val Cys Val Arg		
580	585	590
Leu Leu Leu Glu Ser Lys Glu Lys Lys Ile Arg Glu Phe Ile Gln Asp		
595	600	605
Phe Gln Lys Leu Thr Ala Ala Asp Asp Lys Thr Ala Gln Val Glu Asp		
610	615	620
Phe Leu Gln Phe Leu Tyr Gly Ala Met Ala Gln Asp Val Ile Trp Gln		
625	630	635
Asn Ala Ser Glu Glu Gln Leu Gln Asp Ala Gln Leu Ala Ile Glu Arg		
645	650	655
Ser Val Met Asn Arg Ile Phe Lys Leu Ala Phe Tyr Pro Asn Gln Asp		
660	665	670
Gly Asp Ile Leu Arg Asp Gln Val Leu His Glu His Ile Gln Arg Leu		
675	680	685
Ser Lys Val Val Thr Ala Asn His Arg Ala Leu Gln Ile Pro Glu Val		
690	695	700
Tyr Leu Arg Glu Ala Pro Trp Pro Ser Ala Gln Ser Glu Ile Arg Thr		
705	710	715
Ile Ser Ala Tyr Lys Thr Pro Arg Asp Lys Val Gln Cys Ile Leu Arg		
725	730	735
Met Cys Ser Thr Ile Met Asn Leu Leu Ser Leu Ala Asn Glu Asp Ser		
740	745	750
Val Pro Gly Ala Asp Asp Phe Val Pro Val Leu Val Phe Val Leu Ile		
755	760	765
Lys Ala Asn Pro Pro Cys Leu Leu Ser Thr Val Gln Tyr Ile Ser Ser		
770	775	780
Phe Tyr Ala Ser Cys Leu Ser Gly Glu Glu Ser Tyr Trp Trp Met Gln		
785	790	795
Phe Thr Ala Ala Val Glu Phe Ile Lys Thr Ile Asp Asp Arg Lys		
805	810	815

<210> 1077

<211> 256

<212>Amino acid

<213> Homo sapiens

<400> 1077

Trp Pro Met Ser Leu Ala Arg Gly His Gly Asp Thr Ala Ala Ser Thr		
1	5	10
Ala Ala Pro Leu Ser Glu Glu Gly Glu Val Thr Ser Gly Leu Gln Ala		
20	25	30
Leu Ala Val Glu Asp Thr Gly Gly Pro Ser Ala Ser Ala Gly Lys Ala		
35	40	45
Glu Asp Glu Gly Glu Gly Gly Arg Glu Glu Thr Glu Arg Glu Gly Ser		
50	55	60
Gly Gly Glu Glu Ala Gln Gly Glu Val Pro Ser Ala Gly Gly Glu Glu		
65	70	75
Pro Ala Glu Glu Asp Ser Glu Asp Trp Cys Val Pro Cys Ser Asp Glu		
85	90	95
Glu Val Glu Leu Pro Ala Asp Gly Gln Pro Trp Met Pro Pro Pro Ser		
100	105	110
Glu Ile Gln Arg Leu Tyr Glu Leu Leu Ala Ala His Gly Thr Leu Glu		

```

      115      120      125
Leu Gln Ala Glu Ile Leu Pro Arg Arg Pro Pro Thr Pro Glu Ala Gln
  130      135      140
Ser Glu Glu Glu Arg Ser Asp Glu Glu Pro Glu Ala Lys Glu Glu Glu
145      150      155      160
Glu Glu Lys Pro His Met Pro Thr Glu Phe Asp Phe Asp Asp Glu Pro
      165      170      175
Val Thr Pro Lys Asp Ser Leu Ile Asp Arg Arg Arg Thr Pro Gly Ser
      180      185      190
Ser Ala Arg Ser Gln Lys Arg Glu Ala Arg Leu Asp Lys Val Leu Ser
      195      200      205
Asp Met Lys Arg His Lys Lys Leu Glu Glu Gln Ile Leu Arg Thr Gly
      210      215      220
Arg Asp Leu Phe Ser Leu Asp Ser Glu Asp Pro Ser Pro Ala Ser Pro
225      230      235      240
Pro Leu Arg Ser Ser Gly Ser Ser Leu Phe Pro Arg Gln Arg Lys Tyr
      245      250      255 256

```

```

<210> 1078
<211> 590
<212>Amino acid
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(590)
<223> X = any amino acid or stop code

```

```

      <400> 1078
Leu Gly Arg Gly Thr Phe Gly Gln Val Val Xaa Cys Trp Lys Arg Gly
  1      5      10      15
Thr Asn Glu Ile Val Ala Ile Lys Ile Leu Lys Asn His Pro Ser Tyr
      20      25      30
Ala Arg Gln Gly Gln Ile Glu Val Ser Ile Leu Ala Arg Leu Ser Thr
      35      40      45
Glu Ser Ala Asp Asp Tyr Asn Phe Val Arg Ala Tyr Glu Cys Phe Gln
      50      55      60
His Lys Asn His Thr Cys Leu Val Phe Glu Met Leu Glu Gln Asn Leu
      65      70      75      80
Tyr Asp Phe Leu Lys Gln Asn Lys Phe Ser Pro Leu Pro Leu Lys Tyr
      85      90      95
Ile Arg Pro Val Leu Gln Gln Val Ala Thr Ala Leu Met Lys Leu Lys
      100      105      110
Ser Leu Gly Leu Ile His Ala Asp Leu Lys Pro Glu Asn Ile Met Leu
      115      120      125
Val Asp Pro Ser Arg Gln Pro Tyr Arg Val Lys Val Ile Asp Phe Gly
      130      135      140
Ser Ala Ser His Val Ser Lys Ala Val Cys Ser Thr Tyr Leu Gln Ser
145      150      155      160
Arg Tyr Tyr Arg Ala Pro Glu Ile Ile Leu Gly Leu Pro Phe Cys Glu
      165      170      175
Ala Ile Asp Met Trp Ser Leu Gly Cys Val Ile Ala Glu Leu Phe Leu
      180      185      190
Gly Trp Pro Leu Tyr Pro Gly Ala Ser Glu Tyr Asp Gln Ile Arg Tyr
      195      200      205
Ile Ser Gln Thr Gln Gly Leu Pro Ala Glu Tyr Leu Leu Ser Ala Gly
      210      215      220

```

```

Thr Lys Thr Thr Arg Phe Phe Asn Arg Asp Thr Asp Ser Pro Tyr Pro
225                230                235                240
Leu Trp Arg Leu Lys Thr Pro Asp Asp His Glu Ala Glu Thr Gly Ile
                245                250                255
Lys Ser Lys Glu Ala Arg Lys Tyr Ile Phe Asn Cys Leu Asp Asp Met
                260                265                270
Ala Gln Val Asn Met Thr Thr Asp Leu Glu Gly Ser Asp Met Leu Val
                275                280                285
Glu Lys Ala Val Arg Arg Glu Phe Ile Asp Leu Leu Lys Lys Met Leu
290                295                300
Ser Ile Asp Ser Val Lys Arg Phe Ser Pro Val Gly Ser Leu Asn His
305                310                315                320
Pro Phe Val Thr Met Ser Leu Phe Leu Asp Phe Pro His Ser Thr His
                325                330                335
Val Lys Ser Cys Phe Gln Asn Met Glu Ile Cys Lys Arg Arg Val Asn
340                345                350
Met Tyr Asp Thr Val Asn Gln Ser Lys Thr Pro Phe Ile Thr His Val
355                360                365
Ala Pro Ser Thr Ser Thr Asn Leu Thr Met Thr Phe Asn Asn Gln Leu
370                375                380
Thr Thr Val His Asn Gln Pro Ser Ala Ala Ser Met Ala Ala Val Ala
385                390                395                400
Gln Arg Ser Met Pro Leu Gln Thr Gly Thr Ala Gln Ile Cys Ala Arg
                405                410                415
Pro Asp Pro Phe Gln Gln Ala Leu Ile Val Cys Pro Pro Gly Phe Gln
420                425                430
Gly Leu Gln Ala Ser Pro Ser Lys His Ala Gly Tyr Ser Val Arg Met
435                440                445
Glu Asn Ala Val Pro Ile Val Thr Gln Ala Pro Gly Ala Gln Pro Leu
450                455                460
Gln Ile Gln Pro Gly Leu Leu Ala Gln Gln Ala Trp Pro Ser Gly Thr
465                470                475                480
Gln Gln Ile Leu Leu Pro Pro Ala Trp Gln Gln Leu Thr Gly Val Ala
                485                490                495
Thr His Thr Ser Val Gln His Ala Ala Val Ile Pro Glu Thr Met Ala
500                505                510
Gly Thr Gln Gln Leu Ala Asp Trp Arg Asn Thr His Ala His Gly Ser
515                520                525
His Tyr Asn Pro Ile Met Gln Gln Pro Ala Leu Leu Thr Gly His Val
530                535                540
Thr Leu Pro Ala Ala Gln Pro Leu Asn Val Gly Val Ala His Val Met
545                550                555                560
Arg Gln Gln Pro Thr Ser Thr Thr Ser Ser Arg Lys Ser Lys Gln His
565                570                575
Leu Tyr Cys Gly Arg Ala Arg Val Ser Lys Ile Ala Ser Arg
580                585                590

```

<210> 1079

<211> 904

<212>Amino acid

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(904)

<223> X = any amino acid or stop code

<400> 1079

Glu Phe Ala Ile Cys Arg Tyr Pro Leu Gly Met Ser Gly Gly Gln Ile

1	5	10	15
Pro Asp Glu Asp	Ile Thr Ala Ser Ser	Gln Trp Ser Glu Ser	Thr Ala
20	25	30	
Ala Lys Tyr Gly	Arg Leu Asp Ser	Glu Gly Asp Gly	Ala Trp Cys
35	40	45	
Pro Glu Ile Pro	Val Glu Pro Asp Asp	Leu Lys Glu Phe	Leu Gln Ile
50	55	60	
Asp Leu His Thr	Leu His Phe Ile Thr	Leu Val Gly Thr	Gln Gly Arg
65	70	75	80
His Ala Gly Gly	His Gly Ile Glu Phe	Ala Pro Met Tyr	Lys Ile Asn
85	90	95	
Tyr Ser Arg Asp	Gly Thr Arg Trp Ile	Ser Trp Arg Asn	Arg His Gly
100	105	110	
Lys Gln Val Leu	Asp Gly Asn Ser Asn	Pro Tyr Asp Ile	Phe Leu Lys
115	120	125	
Asp Leu Glu Pro	Pro Ile Val Ala Arg	Phe Val Arg Phe	Ile Pro Val
130	135	140	
Thr Asp His Ser	Met Asn Val Cys Met	Arg Val Glu Leu	Tyr Gly Cys
145	150	155	160
Val Trp Leu Asp	Gly Leu Val Ser Tyr	Asn Ala Pro Ala	Gly Gln Gln
165	170	175	
Phe Val Leu Pro	Gly Gly Ser Ile Ile	Tyr Leu Asn Asp	Ser Val Tyr
180	185	190	
Asp Gly Ala Val	Gly Tyr Ser Met Thr	Glu Gly Leu Gly	Gln Leu Thr
195	200	205	
Asp Gly Val Ser	Gly Leu Asp Asp	Phe Thr Gln Thr	His Glu Tyr His
210	215	220	
Val Trp Pro Gly	Tyr Asp Tyr Val Gly	Trp Arg Asn Glu	Ser Ala Thr
225	230	235	240
Asn Gly Tyr Ile	Glu Ile Met Phe Glu	Phe Asp Arg Ile	Arg Asn Phe
245	250	255	
Thr Thr Met Lys	Val His Cys Asn Asn	Met Phe Ala Lys	Gly Val Lys
260	265	270	
Ile Phe Lys Glu	Val Gln Cys Tyr Phe	Arg Ser Glu Ala	Ser Glu Trp
275	280	285	
Glu Pro Asn Ala	Ile Ser Phe Pro	Leu Val Leu Asp	Asp Val Asn Pro
290	295	300	
Ser Ala Arg Phe	Val Thr Val Pro	Leu His His Arg	Met Ala Ser Ala
305	310	315	320
Ile Lys Cys Gln	Tyr His Phe Ala Asp	Thr Trp Met Met	Phe Ser Glu
325	330	335	
Ile Thr Phe Gln	Ser Asp Ala Ala Met	Tyr Asn Asn Ser	Glu Ala Leu
340	345	350	
Pro Thr Ser Pro	Met Ala Pro Thr	Thr Tyr Asp Pro	Met Leu Lys Val
355	360	365	
Asp Asp Ser Asn	Thr Arg Ile Leu	Ile Gly Cys Leu	Val Ala Ile Ile
370	375	380	
Phe Ile Leu Leu	Ala Ile Val Ile Ile	Leu Trp Arg Gln	Phe Trp
385	390	395	400
Gln Lys Met Leu	Glu Lys Ala Ser Arg	Arg Met Leu Asp	Asp Glu Met
405	410	415	
Thr Val Ser Leu	Ser Leu Pro Ser Asp	Ser Ser Met Phe	Asn Asn Asn
420	425	430	
Arg Ser Ser Ser	Pro Ser Glu Gln	Gly Ser Asn Ser	Thr Tyr Asp Arg
435	440	445	
Ile Phe Pro Leu	Arg Pro Asp Tyr	Gln Glu Pro Ser	Arg Leu Ile Arg
450	455	460	
Lys Leu Pro Glu	Phe Ala Pro Gly	Glu Glu Glu Ser	Gly Cys Ser Gly
465	470	475	480
Val Val Lys Pro	Val Gln Pro Ser Gly	Pro Glu Gly Val	Pro His Tyr
485	490	495	
Ala Glu Ala Asp	Ile Val Asn Leu	Gln Gly Val Thr	Gly Asn Thr
500	505	510	
Tyr Ser Val Pro	Ala Val Thr Met	Asp Leu Leu Ser	Gly Lys Arg Cys

515	520	525
Gly Cys Gly Arg Glu Phe Pro Pro Gly Lys Leu Leu Thr Phe Lys Glu		
530	535	540
Lys Leu Gly Glu Gly Gln Phe Gly Glu Val His Leu Cys Glu Val Glu		
545	550	555
Gly Met Glu Lys Phe Lys Asp Lys Asp Phe Ala Leu Asp Val Ser Ala		
565	570	575
Asn Gln Pro Val Leu Val Ala Val Lys Met Leu Arg Ala Asp Ala Asn		
580	585	590
Lys Asn Ala Arg Asn Asp Phe Leu Lys Glu Ile Lys Ile Met Ser Arg		
595	600	605
Leu Lys Asp Pro Asn Ile Ile His Leu Leu Ser Val Cys Ile Thr Asp		
610	615	620
Asp Pro Leu Cys Met Ile Thr Glu Tyr Met Glu Asn Gly Asp Leu Asn		
625	630	635
Gln Phe Leu Ser Arg His Glu Pro Pro Asn Ser Ser Ser Ser Asp Val		
645	650	655
Arg Thr Val Ser Tyr Thr Asn Leu Lys Phe Met Ala Thr Gln Ile Ala		
660	665	670
Ser Gly Met Lys Tyr Leu Ser Ser Leu Asn Phe Val His Arg Asp Leu		
675	680	685
Ala Thr Arg Asn Cys Leu Val Gly Lys Asn Tyr Thr Ile Lys Ile Ala		
690	695	700
Asp Phe Gly Met Ser Arg Asn Leu Tyr Ser Gly Asp Tyr Tyr Arg Ile		
705	710	715
Gln Gly Arg Ala Val Leu Pro Ile Arg Trp Met Ser Trp Glu Ser Ile		
725	730	735
Leu Leu Gly Lys Phe Thr Thr Ala Ser Asp Val Trp Ala Phe Gly Val		
740	745	750
Thr Leu Trp Glu Thr Phe Thr Phe Cys Gln Arg Lys Gly Pro Tyr Ser		
755	760	765
Gln Leu Ser Asp Glu Thr Gly Tyr Xaa Arg Asn Thr Gly Glu Phe Phe		
770	775	780
Pro Arg Pro Lys Gly Gly Gln Thr Tyr Leu Pro Ser Thr Ser Pro Phe		
785	790	795
Val Pro Asp Ser Cys Val Ile Lys Leu Met Leu Ser Cys Trp Arg Arg		
805	810	815
Asp Thr Lys Asn Arg Pro Ser Phe Gln Glu Ile His Leu Leu Leu Leu		
820	825	830
Gln Gln Gly Asp Glu Arg Cys Cys Gln Cys Leu Ala Met Phe Leu Arg		
835	840	845
Leu Arg Ser Ser Leu Gln Asp Leu Pro Leu Thr His Ala Tyr Ala Thr		
850	855	860
Pro Ser Gly His Leu Met Lys Leu Arg Asp Arg Gly Leu Phe Ala Leu		
865	870	875
Pro Ser Phe Pro Gly His Pro His Ser Leu Pro Leu Thr His Ile Tyr		
885	890	895
Phe Phe Phe Phe Thr Leu Lys Asn		
900	904	

<210> 1080

<211> 304

<212>Amino acid

<213> Homo sapiens

<400> 1080

Cys Ser Ala Ser Pro Leu Arg Pro Gly Leu Leu Ala Pro Asp Leu Leu
1 5 10 15
Tyr Leu Pro Gly Ala Gly Gln Pro Arg Arg Pro Glu Ala Glu Pro Gly

```
<210> 1081
<211> 139
<212> Amino acid
<213> Homo sapiens
```

600

115 120 125
 Pro Gly Thr Ala Gly Glu Leu Ala Ala Pro Ser
 130 135 139

<210> 1082
 <211> 1105
 <212> Amino acid
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(1105)
 <223> X = any amino acid or stop code

<400> 1082
 Glu Lys Asn Ala Leu Glu Pro Thr Val Tyr Phe Gly Met Gly Val Xaa
 1 5 10 15
 Ala Pro Gln Val Pro Arg Phe Gln Gln Arg Ile Thr Gly Tyr Gln Tyr
 20 25 30
 Tyr Leu Gln Leu Arg Lys Asp Ile Trp Glu Glu Gly Ile Pro Cys Thr
 35 40 45
 Leu Glu Gln Pro Ile His Leu Ala Gly Leu Ala Val Gln Ala Ile Phe
 50 55 60
 Gly Asp Phe Asp Gln Tyr Glu Ser Gln Asp Phe Leu Gln Lys Phe Ala
 65 70 75 80
 Leu Phe Pro Val Gly Trp Leu Gln Asp Glu Lys Val Leu Glu Glu Ala
 85 90 95
 Thr Gln Lys Val Ala Leu Leu His Gln Lys Tyr Arg Gly Leu Thr Ala
 100 105 110
 Pro Asp Ala Glu Met Leu Tyr Met Gln Glu Val Glu Arg Met Asp Gly
 115 120 125
 Tyr Gly Glu Glu Ser Tyr Pro Ala Lys Asp Ser Gln Gly Ser Asp Ile
 130 135 140
 Ser Ile Gly Ala Cys Leu Glu Gly Ile Phe Val Lys His Lys Asn Gly
 145 150 155 160
 Arg His Pro Val Val Phe Arg Trp His Asp Ile Ala Asn Met Ser His
 165 170 175
 Asn Lys Ser Phe Phe Ala Leu Glu Leu Ala Asn Lys Glu Glu Thr Ile
 180 185 190
 Gln Phe Gln Thr Glu Asp Met Glu Thr Ala Lys Tyr Ile Trp Arg Leu
 195 200 205
 Cys Val Ala Arg His Lys Phe Tyr Arg Leu Asn Gln Cys Asn Leu Gln
 210 215 220
 Thr Gln Thr Val Thr Val Asn Pro Ile Arg Arg Arg Ser Ser Ser Arg
 225 230 235 240
 Met Ser Leu Pro Lys Pro Gln Pro Tyr Val Met Pro Pro Pro Pro Gln
 245 250 255
 Leu His Tyr Asn Gly His Tyr Thr Glu Pro Tyr Ala Ser Ser Gln Asp
 260 265 270
 Asn Leu Phe Val Pro Asn Gln Glu Gly Tyr Tyr Gly Gln Phe Gln Thr
 275 280 285
 Ser Leu Asn Arg Ala Gln Ile Asp Phe Asn Gly Arg Ile Arg Asn Ala
 290 295 300
 Ser Val Tyr Ser Ala His Ser Thr Asn Ser Leu Asn Asn Pro Gln Pro
 305 310 315 320
 Tyr Leu Gln Pro Ser Pro Met Ser Ser Asn Pro Ser Ile Thr Gly Ser
 325 330 335
 Asp Val Met Arg Pro Asp Tyr Leu Pro Ser His Arg His Ser Ala Val
 340 345 350

```

Ile Pro Pro Ser Tyr Arg Pro Thr Pro Asp Tyr Glu Thr Val Met Lys
      355                      360                      365
Gln Leu Asn Arg Gly Leu Val His Ala Glu Arg Gln Ser His Ser Leu
      370                      375                      380
Arg Asn Leu Asn Ile Gly Ser Ser Tyr Ala Tyr Ser Arg Pro Ala Ala
      385                      390                      395                      400
Leu Val Tyr Ser Gln Pro Glu Ile Arg Glu His Ala Gln Leu Pro Ser
      405                      410                      415
Pro Ala Ala Ala His Cys Pro Phe Ser Leu Ser Tyr Ser Phe His Ser
      420                      425                      430
Pro Ser Pro Tyr Pro Tyr Pro Ala Glu Arg Arg Pro Val Val Gly Ala
      435                      440                      445
Val Ser Val Pro Glu Leu Thr Asn Ala Gln Leu Gln Ala Gln Asp Tyr
      450                      455                      460
Pro Ser Pro Asn Ile Met Arg Thr Gln Val Tyr Arg Pro Pro Pro Pro
      465                      470                      475                      480
Tyr Pro Pro Pro Arg Pro Ala Asn Ser Thr Pro Asp Leu Ser Arg His
      485                      490                      495
Leu Tyr Ile Ser Ser Ser Asn Pro Asp Leu Ile Thr Arg Arg Val His
      500                      505                      510
His Ser Val Gln Thr Phe Gln Glu Asp Ser Leu Pro Val Ala His Ser
      515                      520                      525
Leu Gln Glu Val Ser Glu Pro Leu Thr Ala Ala Arg His Ala Gln Leu
      530                      535                      540
His Lys Arg Asn Ser Ile Glu Val Ala Gly Leu Ser His Gly Leu Glu
      545                      550                      555                      560
Gly Leu Arg Leu Lys Glu Arg Thr Leu Ser Ala Ser Ala Ala Glu Val
      565                      570                      575
Ala Pro Arg Ala Val Ser Val Gly Ser Gln Pro Ser Val Phe Thr Glu
      580                      585                      590
Arg Thr Gln Arg Glu Gly Pro Glu Glu Ala Glu Gly Leu Arg Tyr Gly
      595                      600                      605
His Lys Lys Ser Leu Ser Asp Ala Thr Met Leu Ile His Ser Ser Glu
      610                      615                      620
Glu Glu Glu Asp Glu Asp Phe Glu Glu Glu Ser Gly Ala Arg Ala Pro
      625                      630                      635                      640
Pro Ala Arg Ala Arg Glu Pro Arg Pro Gly Leu Ala Gln Asp Pro Pro
      645                      650                      655
Gly Cys Pro Arg Val Leu Leu Ala Gly Pro Leu His Ile Leu Glu Pro
      660                      665                      670
Lys Ala His Val Pro Asp Ala Glu Lys Arg Met Met Asp Ser Ser Pro
      675                      680                      685
Val Arg Thr Thr Ala Glu Ala Gln Arg Pro Trp Arg Asp Gly Leu Leu
      690                      695                      700
Met Pro Ser Met Ser Glu Ser Asp Leu Thr Thr Ser Gly Arg Tyr Arg
      705                      710                      715                      720
Ala Arg Arg Asp Ser Leu Lys Lys Arg Pro Val Ser Asp Leu Leu Ser
      725                      730                      735
Gly Lys Lys Asn Ile Val Glu Gly Leu Pro Pro Leu Gly Gly Met Lys
      740                      745                      750
Lys Thr Arg Val Asp Ala Lys Lys Ile Gly Pro Leu Lys Leu Ala Ala
      755                      760                      765
Leu Asn Gly Leu Ser Leu Ser Arg Val Pro Leu Pro Asp Glu Gly Lys
      770                      775                      780
Glu Val Ala Thr Arg Ala Thr Asn Asp Glu Arg Cys Lys Ile Leu Glu
      785                      790                      795                      800
Gln Arg Leu Glu Gln Gly Met Val Phe Thr Glu Tyr Glu Arg Ile Leu
      805                      810                      815
Lys Lys Arg Leu Val Asp Gly Glu Cys Ser Thr Ala Arg Leu Pro Glu
      820                      825                      830
Asn Ala Glu Arg Asn Arg Phe Gln Asp Val Leu Pro Tyr Asp Asp Val
      835                      840                      845
Arg Val Glu Leu Val Pro Thr Lys Glu Asn Asn Thr Gly Tyr Ile Asn
      850                      855                      860

```

```

Ile Pro Pro Ser Tyr Arg Pro Thr Pro Asp Tyr Glu Thr Val Met Lys
      355                      360                      365
Gln Leu Asn Arg Gly Leu Val His Ala Glu Arg Gln Ser His Ser Leu
      370                      375                      380
Arg Asn Leu Asn Ile Gly Ser Ser Tyr Ala Tyr Ser Arg Pro Ala Ala
      385                      390                      395                      400
Leu Val Tyr Ser Gln Pro Glu Ile Arg Glu His Ala Gln Leu Pro Ser
      405                      410                      415
Pro Ala Ala Ala His Cys Pro Phe Ser Leu Ser Tyr Ser Phe His Ser
      420                      425                      430
Pro Ser Pro Tyr Pro Tyr Pro Ala Glu Arg Arg Pro Val Val Gly Ala
      435                      440                      445
Val Ser Val Pro Glu Leu Thr Asn Ala Gln Leu Gln Ala Gln Asp Tyr
      450                      455                      460
Pro Ser Pro Asn Ile Met Arg Thr Gln Val Tyr Arg Pro Pro Pro Pro
      465                      470                      475                      480
Tyr Pro Pro Pro Arg Pro Ala Asn Ser Thr Pro Asp Leu Ser Arg His
      485                      490                      495
Leu Tyr Ile Ser Ser Ser Asn Pro Asp Leu Ile Thr Arg Arg Val His
      500                      505                      510
His Ser Val Gln Thr Phe Gln Glu Asp Ser Leu Pro Val Ala His Ser
      515                      520                      525
Leu Gln Glu Val Ser Glu Pro Leu Thr Ala Ala Arg His Ala Gln Leu
      530                      535                      540
His Lys Arg Asn Ser Ile Glu Val Ala Gly Leu Ser His Gly Leu Glu
      545                      550                      555                      560
Gly Leu Arg Leu Lys Glu Arg Thr Leu Ser Ala Ser Ala Ala Glu Val
      565                      570                      575
Ala Pro Arg Ala Val Ser Val Gly Ser Gln Pro Ser Val Phe Thr Glu
      580                      585                      590
Arg Thr Gln Arg Glu Gly Pro Glu Glu Ala Glu Gly Leu Arg Tyr Gly
      595                      600                      605
His Lys Lys Ser Leu Ser Asp Ala Thr Met Leu Ile His Ser Ser Glu
      610                      615                      620
Glu Glu Glu Asp Glu Asp Phe Glu Glu Glu Ser Gly Ala Arg Ala Pro
      625                      630                      635                      640
Pro Ala Arg Ala Arg Glu Pro Arg Pro Gly Leu Ala Gln Asp Pro Pro
      645                      650                      655
Gly Cys Pro Arg Val Leu Leu Ala Gly Pro Leu His Ile Leu Glu Pro
      660                      665                      670
Lys Ala His Val Pro Asp Ala Glu Lys Arg Met Met Asp Ser Ser Pro
      675                      680                      685
Val Arg Thr Thr Ala Glu Ala Gln Arg Pro Trp Arg Asp Gly Leu Leu
      690                      695                      700
Met Pro Ser Met Ser Glu Ser Asp Leu Thr Thr Ser Gly Arg Tyr Arg
      705                      710                      715                      720
Ala Arg Arg Asp Ser Leu Lys Lys Arg Pro Val Ser Asp Leu Leu Ser
      725                      730                      735
Gly Lys Lys Asn Ile Val Glu Gly Leu Pro Pro Leu Gly Gly Met Lys
      740                      745                      750
Lys Thr Arg Val Asp Ala Lys Lys Ile Gly Pro Leu Lys Leu Ala Ala
      755                      760                      765
Leu Asn Gly Leu Ser Leu Ser Arg Val Pro Leu Pro Asp Glu Gly Lys
      770                      775                      780
Glu Val Ala Thr Arg Ala Thr Asn Asp Glu Arg Cys Lys Ile Leu Glu
      785                      790                      795                      800
Gln Arg Leu Glu Gln Gly Met Val Phe Thr Glu Tyr Glu Arg Ile Leu
      805                      810                      815
Lys Lys Arg Leu Val Asp Gly Glu Cys Ser Thr Ala Arg Leu Pro Glu
      820                      825                      830
Asn Ala Glu Arg Asn Arg Phe Gln Asp Val Leu Pro Tyr Asp Asp Val
      835                      840                      845
Arg Val Glu Leu Val Pro Thr Lys Glu Asn Asn Thr Gly Tyr Ile Asn
      850                      855                      860

```

Ala Ser His Ile Lys Val Ser Val Ser Gly Ile Glu Trp Asp Tyr Ile
 865 870 875 880
 Ala Thr Gln Gly Pro Leu Gln Asn Thr Cys Gln Asp Phe Trp Gln Met
 885 890 895
 Val Trp Glu Gln Gly Ile Ala Ile Ile Ala Met Val Thr Ala Glu Glu
 900 905 910
 Glu Gly Gly Arg Glu Lys Ser Phe Arg Tyr Trp Pro Arg Leu Gly Ser
 915 920 925
 Arg His Asn Thr Val Thr Tyr Gly Arg Phe Lys Ile Thr Thr Arg Phe
 930 935 940
 Arg Thr Asp Ser Gly Cys Tyr Ala Thr Thr Gly Leu Lys Met Lys His
 945 950 955 960
 Leu Leu Thr Gly Gln Glu Arg Thr Val Trp His Leu Gln Tyr Thr Asp
 965 970 975
 Trp Pro Glu His Gly Cys Pro Glu Asp Leu Lys Gly Phe Leu Ser Tyr
 980 985 990
 Leu Glu Glu Ile Gln Ser Val Arg Arg His Thr Asn Ser Thr Ser Asp
 995 1000 1005
 Pro Gln Ser Pro Asn Pro Pro Leu Leu Val His Cys Ser Ala Gly Val
 1010 1015 1020
 Gly Arg Thr Gly Val Val Ile Leu Ser Glu Ile Met Ile Ala Cys Leu
 1025 1030 1035 1040
 Glu His Asn Glu Val Leu Asp Ile Pro Arg Val Leu Asp Met Leu Arg
 1045 1050 1055
 Gln Gln Arg Met Met Leu Val Gln Thr Leu Cys Gln Tyr Thr Phe Val
 1060 1065 1070
 Tyr Arg Val Leu Ile Gln Val Pro Glu Lys Ala Pro Arg Leu Ile Leu
 1075 1080 1085
 Ser Ser Pro Gln Phe Pro Tyr Gly Ala Gln Ser Cys Glu Ala Phe Thr
 1090 1095 1100
 Ala
 1105

<210> 1083

<211> 99

<212> Amino acid

<213> Homo sapiens

<220> .

<221> misc_feature

<222> (1)...(99)

<223> X = any amino acid or stop code

<400> 1083

Arg Lys Lys Gln Lys Leu Ala Glu Glu Xaa Val Glu Leu Ser Lys Leu
 1 5 10 15
 Ala Asp Leu Lys Asp Ala Glu Ala Val Gln Lys Phe Phe Leu Glu Glu
 20 25 30
 Ile Xaa Leu Gly Glu Glu Ile Leu Ala Lys Gly Val Asp His Leu Thr
 35 40 45
 Asn Pro Ser Ala Val Cys Gly Gln Pro Gln Trp Leu Leu Gln Val Leu
 50 55 60
 Gln Gln Thr Leu Pro Leu Pro Val Ile Gln Met Leu Leu Thr Lys Pro
 65 70 75 80
 Leu Pro Val Asn Gln Arg Leu Val Ser Ala Gly Ser Leu Ala Lys Asp
 85 90 95
 Asp Val Glu
 99

<210> 1084
 <211> 206
 <212>Amino acid
 <213> Homo sapiens

 <220>
 <221> misc_feature
 <222> (1)...(206)
 <223> X = any amino acid or stop code

<400> 1084
 Ser Phe Cys Leu His Glu Phe Gly Trp Leu Gly Ser Ser Pro Gln Ser
 1 5 10 15
 Asp His Pro Val Pro Ala Leu Leu Gly Leu Gly Ala Phe Val His His
 20 25 30
 Ser Leu Leu Gln Val His Ser Ser Pro Gly Ala Gly Pro Val Ser Phe
 35 40 45
 Leu Phe Leu Gly Glu Ser Cys Ser Pro Val Asp Glu Pro Arg Cys Val
 50 55 60
 Pro Ser Cys Ala Phe Gly Phe Leu Ser Cys Phe Pro Leu Leu Asn Ser
 65 70 75 80
 Ala Ala Leu Glu Arg Gly Leu Phe Phe Phe Val Val Phe Phe Phe Leu
 85 90 95
 Glu Ser Gly Ser Cys Gln Val Ala Arg Ala Gly Val Arg Asp Arg Asp
 100 105 110
 Arg Gly Ser Leu Gln Pro Pro Pro Gly Leu Lys Gln Phe Cys Leu
 115 120 125
 Ser Leu Pro Ser Arg Trp Asp His Arg His Pro Pro Pro Leu Arg Val
 130 135 140
 Pro Xaa Phe Val Phe Val Phe Leu Val Glu Leu Gly Phe His His Val
 145 150 155 160
 Ala Gln Ala Gly Leu Lys Leu Leu Thr Leu Ser Asp Pro Pro Ala Pro
 165 170 175
 Ala Ser His Ser Ala Gly Ile Thr Gly Val Ser Gln Arg Asp Gln Pro
 180 185 190
 Val Leu Phe Leu Arg Trp Ala Ser Cys Ser Glu Leu Val Gly
 195 200 205 206

<210> 1085
 <211> 99
 <212>Amino acid
 <213> Homo sapiens

<400> 1085
 Glu Gly Phe Pro Gly Arg Ser Leu Ser Gly Gly Leu Cys Cys Arg Leu
 1 5 10 15
 Arg Arg Arg Phe Pro Ile Asp Gly Tyr Arg Pro Arg Arg Arg Arg Arg
 20 25 30
 Trp Ser Cys Cys Pro Ser Gly Val Arg Pro Val Arg Arg Met Ser Gln
 35 40 45
 Lys Ser Trp Ile Glu Ser Thr Leu Thr Lys Arg Glu Cys Val Tyr Ile
 50 55 60
 Ile Pro Ser Ser Lys Asp Pro His Arg Cys Leu Pro Gly Cys Gln Ile
 65 70 75 80

Cys Gln Gln Leu Val Arg Arg Gly Phe Thr Val Leu Ala Arg Met Val
 85 90 95
 Ser Ile Ser
 99

<210> 1086
 <211> 53
 <212>Amino acid
 <213> Homo sapiens

<400> 1086
 Gln Asn Ser Thr Cys Leu Thr Ala Gln Thr His Ser Leu Leu Gln His
 1 5 10 15
 Gln Pro Leu Gln Leu Thr Thr Leu Leu Asp Gln Tyr Ile Arg Glu Gln
 20 25 30
 Arg Glu Lys Asp Ser Val Met Ser Ala Asn Gly Lys Pro Asp Pro Asp
 35 40 45
 Thr Val Pro Asp Ser
 50 53

<210> 1087
 <211> 250
 <212>Amino acid
 <213> Homo sapiens

<400> 1087
 Leu Asn Pro Trp Lys Asn Ala Leu Gln Asp Phe Cys Leu Pro Phe Leu
 1 5 10 15
 Arg Ile Thr Ser Leu Leu Gln His His Leu Phe Gly Glu Asp Leu Pro
 20 25 30
 Ser Cys Gln Glu Glu Glu Glu Phe Ser Val Leu Ala Ser Cys Leu Gly
 35 40 45
 Leu Leu Pro Thr Phe Tyr Gln Thr Glu His Pro Phe Ile Ser Ala Ser
 50 55 60
 Cys Leu Asp Trp Pro Val Pro Ala Phe Asp Ile Ile Thr His Trp Cys
 65 70 75 80
 Phe Glu Ile Lys Ser Phe Thr Glu Arg His Ala Glu Gln Gly Lys Ala
 85 90 95
 Leu Leu Ile Gln Glu Ser Lys Trp Lys Leu Pro His Leu Leu Gln Leu
 100 105 110
 Pro Glu Asn Tyr Asn Thr Ile Phe Gln Tyr Tyr His Arg Lys Thr Cys
 115 120 125
 Ser Val Cys Thr Lys Val Pro Lys Asp Pro Ala Val Cys Leu Val Cys
 130 135 140
 Gly Thr Phe Val Cys Leu Lys Gly Leu Cys Cys Lys Gln Gln Ser Tyr
 145 150 155 160
 Cys Glu Cys Val Leu His Ser Gln Asn Cys Gly Ala Gly Thr Gly Ile
 165 170 175
 Phe Leu Leu Ile Asn Ala Ser Val Ile Ile Ile Ile Arg Gly His Arg
 180 185 190
 Phe Cys Leu Trp Gly Ser Val Tyr Leu Asp Ala His Gly Glu Glu Asp
 195 200 205
 Arg Asp Leu Arg Arg Gly Lys Pro Leu Tyr Ile Cys Lys Glu Arg Tyr
 210 215 220

Lys Val Leu Glu Gln Gln Trp Ile Ser His Thr Phe Asp His Ile Asn
 225 230 235 240
 Lys Arg Trp Gly Pro His Tyr Asn Gly Leu
 245 250

<210> 1088
 <211> 455
 <212> Amino acid
 <213> Homo sapiens

<400> 1088
 Lys Gly Gln Leu Val Asn Leu Leu Pro Pro Glu Asn Phe Pro Trp Cys
 1 5 10 15
 Gly Gly Ser Gln Gly Pro Arg Met Leu Arg Thr Cys Tyr Val Leu Cys
 20 25 30
 Ser Gln Ala Gly Pro Arg Ser Arg Gly Trp Gln Ser Leu Ser Phe Asp
 35 40 45
 Gly Gly Ala Phe His Leu Lys Gly Thr Gly Glu Leu Thr Arg Ala Leu
 50 55 60
 Leu Val Leu Arg Leu Cys Ala Trp Pro Pro Leu Val Thr His Gly Leu
 65 70 75 80
 Leu Leu Gln Ala Trp Ser Arg Arg Leu Leu Gly Ser Arg Leu Ser Gly
 85 90 95
 Ala Phe Leu Arg Ala Ser Val Tyr Gly Gln Phe Val Ala Gly Glu Thr
 100 105 110
 Ala Glu Glu Val Lys Gly Cys Val Gln Gln Leu Arg Thr Leu Ser Leu
 115 120 125
 Arg Pro Leu Leu Ala Val Pro Thr Glu Glu Glu Pro Asp Ser Ala Ala
 130 135 140
 Lys Ser Gly Glu Ala Trp Tyr Glu Gly Asn Leu Gly Ala Met Leu Arg
 145 150 155 160
 Cys Val Asp Leu Ser Arg Gly Leu Leu Glu Pro Pro Ser Leu Ala Glu
 165 170 175
 Ala Ser Leu Met Gln Leu Lys Val Thr Ala Leu Thr Ser Thr Arg Leu
 180 185 190
 Cys Lys Glu Leu Ala Ser Trp Val Arg Arg Pro Gly Ala Ser Leu Glu
 195 200 205
 Leu Ser Pro Glu Arg Leu Ala Glu Ala Met Asp Ser Gly Gln Asn Leu
 210 215 220
 Gln Val Ser Cys Leu Asn Ala Glu Gln Asn Gln His Leu Arg Ala Ser
 225 230 235 240
 Leu Ser Arg Leu His Arg Val Ala Gln Tyr Ala Arg Ala Gln His Val
 245 250 255
 Arg Leu Leu Val Asp Ala Glu Tyr Thr Ser Leu Asn Pro Ala Leu Ser
 260 265 270
 Leu Leu Val Ala Ala Leu Ala Val Arg Trp Asn Ser Pro Gly Glu Gly
 275 280 285
 Gly Pro Trp Val Trp Asn Thr Tyr Gln Ala Cys Leu Lys Asp Thr Phe
 290 295 300
 Glu Arg Leu Gly Arg Asp Ala Glu Ala Ala His Arg Ala Gly Leu Ala
 305 310 315 320
 Phe Gly Val Lys Leu Val Arg Gly Ala Tyr Leu Asp Lys Glu Arg Ala
 325 330 335
 Val Ala Gln Leu His Gly Met Glu Asp Pro Pro Thr Gln Ala Asp Tyr
 340 345 350
 Glu Ala Thr Ser Gln Ser Tyr Ser Arg Cys Leu Glu Leu Met Leu Thr
 355 360 365
 His Val Ala Arg His Gly Pro Met Cys His Leu Met Val Ala Ser His
 370 375 380

```

Asn Glu Glu Ser Val Arg Gln Ala Thr Lys Gly Gln Ala Gly Tyr Val
385                      390                      395                      400
Val Tyr Lys Ser Ile Pro Tyr Gly Ser Leu Glu Glu Val Ile Pro Tyr
                      405                      410                      415
Leu Ile Arg Arg Ala Gln Glu Asn Arg Ser Val Leu Gln Gly Ala Arg
                      420                      425                      430
Arg Glu Gln Glu Leu Leu Ser Gln Lys Leu Trp Arg Arg Leu Leu Pro
                      435                      440                      445
Gly Cys Arg Arg Ile Pro His
450                      455

```

<210> 1089

<211> 243

<212>Amino acid

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(243)

<223> X = any amino acid or stop code

<400> 1089

```

Val Val Glu Phe Gly Glu Met Ser Thr Ala Arg Ala Pro Glu Gly Leu
1      5      10      15
Arg Trp Phe Gln Leu Tyr Val His Pro Asp Leu Gln Leu Asn Lys Gln
20      25      30
Leu Ile Gln Arg Val Glu Ser Leu Gly Phe Lys Ala Leu Val Ile Thr
35      40      45
Leu Asp Thr Pro Val Cys Gly Asn Arg Arg His Asp Ile Arg Asn Gln
50      55      60
Leu Arg Arg Asn Leu Thr Leu Thr Asp Leu Gln Ser Pro Lys Lys Gly
65      70      75      80
Asn Ala Ile Pro Tyr Phe Gln Met Thr Pro Ile Ser Thr Ser Leu Cys
85      90      95
Trp Asn Asp Leu Ser Trp Phe Gln Ser Ile Thr Arg Leu Pro Ile Ile
100     105     110
Leu Lys Gly Ile Leu Thr Lys Glu Asp Ala Glu Leu Ala Val Lys His
115     120     125
Asn Val Gln Gly Ile Ile Val Ser Asn His Gly Gly Arg Gln Leu Asp
130     135     140
Glu Val Leu Ala Ser Ile Asp Ala Leu Thr Glu Val Gly Ala Ala Glu
145     150     155     160
Xaa Gly Asn Met Lys Tyr Tyr Leu Asp Ala Gly Val Arg Thr Gly Asn
165     170     175
Asp Val Gln Lys Ala Leu Ala Leu Gly Ala Lys Cys Ile Phe Leu Gly
180     185     190
Arg Pro Ile Leu Trp Gly Leu Ala Cys Lys Gly Glu His Gly Val Lys
195     200     205
Glu Val Leu Asn Ile Leu Thr Asn Glu Phe His Thr Ser Met Ala Leu
210     215     220
Thr Gly Cys Arg Ser Val Ala Glu Ile Asn Arg Asn Leu Val Gln Phe
225     230     235     240
Ser Arg Leu
243

```

<210> 1090

<211> 90

<212>Amino acid

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(90)

<223> X = any amino acid or stop code

<400> 1090

```

Phe Phe Leu Arg Trp Ser Phe Thr Leu Leu Pro Arg Leu Glu Cys Gln
 1           5           10           15
Trp Leu Asn Leu Gly Ser Leu Gln Pro Pro Pro Gly Phe Lys Xaa
          20           25           30
Ser Ser Cys Leu Arg Leu Leu Ser Ser Trp Gly Leu Gln Val Pro Thr
          35           40           45
Ser Met Leu Gly Xaa Phe Phe Cys Ile Phe Ser Arg Glu Gly Ile Ser
          50           55           60
Pro Cys Trp Pro Gly Trp Ser Gln Thr Pro Lys Val Ile His Leu Pro
          65           70           75           80
Arg Pro Pro Arg Val Leu Arg Leu Gln Ala
          85           90

```

<210> 1091

<211> 259

<212>Amino acid

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(259)

<223> X = any amino acid or stop code

<400> 1091

```

Leu Leu Cys Phe Val His Thr Ala Leu Gln Ser Phe Gln Gly Glu Leu
 1           5           10           15
Tyr Glu Pro His Val Val Ile Ala Ile Val Val Phe Leu Val Lys Leu
          20           25           30
Gly Ile Cys Lys Xaa Arg Ala Ser Trp Arg Lys Lys Val Thr Leu Val
          35           40           45
Val Lys Xaa Ser Leu Lys Ile Cys Phe Thr Lys Tyr Gly Ser Cys Tyr
          50           55           60
His Pro Gly Glu Lys Ser Ser Ser Trp Leu Phe Asn Xaa Arg Met Val
          65           70           75           80
Asn Asp Cys Leu Ala Thr Ser Cys Ser Asn Arg Ser Phe Val Ile Gln
          85           90           95
Gln Ile Pro Ser Ser Asn Leu Phe Met Val Val Val Asp Ser Ser Cys
          100          105          110
Leu Cys Glu Ser Val Ala Pro Ile Thr Met Ala Pro Ile Glu Ile Arg
          115          120          125
Tyr Ile Leu Leu Cys Ala Gly Pro Leu Thr Thr Thr Glu Thr Ser Lys
          130          135          140
Gly Tyr Gln Trp Xaa Gly Asn Leu Gly Glu Lys Tyr Xaa Arg Arg Lys
          145          150          155          160
Ile Thr Ser Phe Pro Leu Leu Glu Arg Glu Ser Ser Xaa Glu Ser Cys
          165          170          175
His Cys Gln Ile Leu Thr Ser Glu Met Gln Ser Arg Lys Lys Gln Ser

```

```

      180      185      190
Leu Glu Thr Cys Leu Asn Tyr Ser Gln His Asn Glu Ser Leu Lys Cys
      195      200      205
Glu Arg Leu Lys Ala Gln Lys Ile Arg Arg Arg Pro Glu Ser Cys His
      210      215      220
Gly Phe His Pro Glu Glu Asn Ala Arg Glu Cys Gly Gly Ala Pro Ser
      225      230      235      240
Leu Gln Ala Gln Thr Val Leu Leu Leu Leu Pro Leu Leu Leu Met Leu
      245      250      255
Phe Ser Arg
      259

```

```

<210> 1092
<211> 117
<212> Amino acid
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(117)
<223> X = any amino acid or stop code

```

```

      <400> 1092
Val Pro Ser Pro Thr His Asp Pro Lys Pro Ala Glu Ala Pro Met Pro
  1          5          10          15
Ala Xaa Pro Ala Pro Pro Gly Pro Ala Ser Pro Gly Gly Ala Leu Glu
      20          25          30
Pro Pro Ala Ala Ala Arg Ala Gly Gly Ser Pro Thr Ala Val Arg Ser
      35          40          45
Ile Leu Thr Lys Glu Arg Arg Pro Glu Gly Gly Tyr Lys Ala Val Trp
      50          55          60
Phe Gly Glu Asp Ile Gly Thr Glu Ala Asp Val Val Val Leu Asn Ala
      65          70          75          80
Pro Thr Leu Asp Val Asp Gly Ala Ser Asp Ser Gly Ser Gly Asp Glu
      85          90          95
Gly Glu Gly Ala Gly Arg Gly Gly Gly Pro Tyr Asp Ala Pro Gly Gly
      100          105          110
Asp Asp Ser Tyr Ile
      115          117

```

```

<210> 1093
<211> 763
<212> Amino acid
<213> Homo sapiens

```

```

      <400> 1093
Leu Ile Ser Leu Ala Gly Pro Thr Asp Asp Ile Gln Ser Thr Gly Pro
  1          5          10          15
Gln Val His Ala Leu Asn Ile Leu Arg Ala Leu Phe Arg Asp Thr Arg
      20          25          30
Leu Gly Glu Asn Ile Ile Pro Tyr Val Ala Asp Gly Ala Lys Ala Ala
      35          40          45
Ile Leu Gly Phe Thr Ser Pro Val Trp Ala Val Arg Asn Ser Ser Thr
      50          55          60

```

Leu	Leu	Phe	Ser	Ala	Leu	Ile	Thr	Arg	Ile	Phe	Gly	Val	Lys	Arg	Ala
65					70					75					80
Lys	Asp	Glu	His	Ser	Lys	Thr	Asn	Arg	Met	Thr	Gly	Arg	Glu	Phe	Phe
				85					90					95	
Ser	Arg	Phe	Pro	Glu	Leu	Tyr	Pro	Phe	Leu	Leu	Lys	Gln	Leu	Glu	Thr
			100					105					110		
Val	Ala	Asn	Thr	Val	Asp	Ser	Asp	Met	Gly	Glu	Pro	Asn	Arg	His	Pro
		115					120					125			
Ser	Met	Phe	Leu	Leu	Leu	Leu	Val	Leu	Glu	Arg	Leu	Tyr	Ala	Ser	Pro
	130						135				140				
Met	Asp	Gly	Thr	Ser	Ser	Ala	Leu	Ser	Met	Gly	Pro	Phe	Val	Pro	Phe
145					150					155					160
Ile	Met	Arg	Cys	Gly	His	Ser	Pro	Val	Tyr	His	Ser	Arg	Glu	Met	Ala
			165						170					175	
Ala	Arg	Ala	Leu	Val	Pro	Phe	Val	Met	Ile	Asp	His	Ile	Pro	Asn	Thr
			180					185					190		
Ile	Arg	Thr	Leu	Leu	Ser	Thr	Leu	Pro	Ser	Cys	Thr	Asp	Gln	Cys	Phe
	195						200					205			
Arg	Gln	Asn	His	Ile	His	Gly	Thr	Leu	Leu	Gln	Val	Phe	His	Leu	Val
	210					215					220				
Gln	Ala	Tyr	Ser	Asp	Ser	Lys	His	Gly	Thr	Asn	Ser	Asp	Phe	Gln	His
225					230					235					240
Glu	Leu	Thr	Asp	Ile	Thr	Val	Cys	Thr	Lys	Ala	Lys	Leu	Trp	Leu	Ala
			245						250					255	
Lys	Arg	Gln	Asn	Pro	Cys	Leu	Val	Thr	Arg	Ala	Val	Tyr	Ile	Asp	Ile
		260						265					270		
Leu	Phe	Leu	Leu	Thr	Cys	Cys	Leu	Asn	Arg	Ser	Ala	Lys	Asp	Asn	Gln
	275						280					285			
Pro	Val	Leu	Glu	Ser	Leu	Gly	Phe	Trp	Glu	Glu	Val	Arg	Gly	Ile	Ile
	290					295					300				
Ser	Gly	Ser	Glu	Leu	Ile	Thr	Gly	Phe	Pro	Trp	Ala	Phe	Lys	Val	Pro
305					310					315					320
Gly	Leu	Pro	Gln	Tyr	Leu	Gln	Ser	Leu	Thr	Arg	Leu	Ala	Ile	Ala	Ala
			325						330					335	
Val	Trp	Ala	Ala	Ala	Ala	Lys	Ser	Gly	Glu	Arg	Glu	Thr	Asn	Val	Pro
		340						345					350		
Ile	Ser	Phe	Ser	Gln	Leu	Leu	Glu	Ser	Ala	Phe	Pro	Glu	Val	Arg	Ser
	355						360						365		
Leu	Thr	Leu	Glu	Ala	Leu	Leu	Glu	Lys	Phe	Leu	Ala	Ala	Ala	Ser	Gly
	370						375				380				
Leu	Gly	Glu	Lys	Gly	Val	Pro	Pro	Leu	Leu	Cys	Asn	Met	Gly	Glu	Lys
385					390					395					400
Phe	Leu	Leu	Leu	Ala	Met	Lys	Glu	Asn	His	Pro	Glu	Cys	Phe	Cys	Lys
			405						410					415	
Ile	Leu	Lys	Ile	Leu	His	Cys	Met	Asp	Pro	Gly	Glu	Trp	Leu	Pro	Gln
		420						425						430	
Thr	Glu	His	Cys	Val	His	Leu	Thr	Pro	Lys	Glu	Phe	Leu	Ile	Trp	Thr
	435						440						445		
Met	Asp	Ile	Ala	Ser	Asn	Glu	Arg	Ser	Glu	Ile	Gln	Ser	Val	Ala	Leu
	450						455				460				
Arg	Leu	Ala	Ser	Lys	Val	Ile	Ser	His	His	Met	Gln	Thr	Cys	Val	Glu
465					470					475					480
Asn	Arg	Glu	Leu	Ile	Ala	Ala	Glu	Leu	Lys	Gln	Trp	Val	Gln	Leu	Val
			485						490					495	
Ile	Leu	Ser	Cys	Glu	Asp	His	Leu	Pro	Thr	Glu	Ser	Arg	Leu	Ala	Val
		500						505					510		
Val	Glu	Val	Leu	Thr	Ser	Thr	Thr	Pro	Leu	Phe	Leu	Thr	Asn	Pro	His
	515						520						525		
Pro	Ile	Leu	Glu	Leu	Gln	Asp	Thr	Leu	Ala	Leu	Trp	Lys	Cys	Val	Leu
	530						535						540		
Thr	Leu	Leu	Gln	Ser	Glu	Gln	Gln	Ala	Val	Arg	Asp	Ala	Ala	Thr	Glu
545					550					555					560
Thr	Val	Thr	Thr	Ala	Met	Ser	Gln	Glu	Asn	Thr	Cys	Gln	Ser	Thr	Glu
			565						570						575

Phe Ala Phe Cys Gln Val Asp Ala Ser Ile Ala Leu Ala Leu Ala Leu
 580 585 590
 Ala Val Leu Cys Asp Leu Leu Gln Gln Trp Asp Gln Leu Ala Pro Gly
 595 600 605
 Leu Pro Ile Leu Leu Gly Trp Leu Leu Gly Glu Ser Asp Asp Leu Val
 610 615 620
 Ala Cys Val Glu Ser Met His Gln Val Glu Glu Asp Tyr Leu Phe Glu
 625 630 635 640
 Lys Ala Glu Val Asn Phe Trp Ala Glu Thr Leu Ile Phe Val Lys Tyr
 645 650 655
 Leu Cys Lys His Leu Phe Cys Leu Leu Ser Lys Ser Gly Trp Arg Pro
 660 665 670
 Pro Ser Pro Glu Met Leu Cys His Leu Gln Arg Met Val Ser Glu Gln
 675 680 685
 Cys His Leu Leu Ser Gln Phe Phe Arg Glu Leu Pro Pro Ala Ala Glu
 690 695 700
 Phe Val Lys Thr Val Glu Phe Thr Arg Leu Arg Ile Gln Glu Glu Arg
 705 710 715 720
 Thr Leu Ala Cys Leu Arg Leu Leu Ala Phe Leu Glu Gly Lys Glu Gly
 725 730 735
 Glu Asp Thr Leu Val Leu Ser Val Trp Asp Ser Tyr Ala Glu Ser Arg
 740 745 750
 Gln Leu Thr Leu Pro Arg Thr Glu Ala Ala Cys
 755 760 763

<210> 1094
 <211> 413
 <212> Amino acid
 <213> Homo sapiens

<400> 1094
 His Ala Phe Arg Pro Ile Ala Leu Gln Arg Gly Val Ser Phe Arg Gly
 1 5 10 15
 Cys Ser Asn Gln Tyr Ala Glu Ser Arg Arg Leu Gln Gly Glu Ser Gly
 20 25 30
 Ser Arg Ala Phe Ala His Leu Met Glu Ser Leu Leu Gln His Leu Asp
 35 40 45
 Arg Phe Ser Glu Leu Leu Ala Val Ser Ser Thr Thr Tyr Val Ser Thr
 50 55 60
 Trp Asp Pro Ala Thr Val Arg Arg Ala Leu Gln Trp Ala Arg Tyr Leu
 65 70 75 80
 Arg His Ile His Arg Arg Phe Gly Arg His Gly Pro Ile Arg Thr Ala
 85 90 95
 Leu Glu Arg Arg Leu His Asn Gln Trp Arg Gln Glu Gly Gly Phe Gly
 100 105 110
 Arg Gly Pro Val Pro Gly Leu Ala Asn Phe Gln Ala Leu Gly His Cys
 115 120 125
 Asp Val Leu Leu Ser Leu Arg Leu Leu Glu Asn Arg Ala Leu Gly Asp
 130 135 140
 Ala Ala Arg Tyr His Leu Val Gln Gln Leu Phe Pro Gly Pro Gly Val
 145 150 155 160
 Arg Asp Ala Asp Glu Glu Thr Leu Gln Glu Ser Leu Ala Arg Leu Ala
 165 170 175
 Arg Arg Arg Ser Ala Val His Met Leu Arg Phe Asn Gly Tyr Arg Glu
 180 185 190
 Asn Pro Asn Leu Gln Glu Asp Ser Leu Met Lys Thr Gln Ala Glu Leu
 195 200 205
 Leu Leu Glu Arg Leu Gln Glu Val Gly Lys Ala Glu Ala Glu Arg Pro
 210 215 220

```

Ala Arg Phe Leu Ser Ser Leu Trp Glu Arg Leu Pro Gln Asn Asn Phe
225                230                235                240
Leu Lys Val Ile Ala Val Ala Leu Leu Gln Pro Pro Leu Ser Arg Arg
                245                250                255
Pro Gln Glu Glu Leu Glu Pro Gly Ile His Lys Ser Pro Gly Glu Gly
                260                265                270
Ser Gln Val Leu Val His Trp Leu Leu Gly Asn Ser Glu Val Phe Ala
                275                280                285
Ala Phe Cys Arg Ala Leu Pro Ala Gly Leu Leu Thr Leu Val Thr Ser
                290                295                300
Arg His Pro Ala Leu Ser Pro Val Tyr Leu Gly Leu Leu Thr Asp Trp
305                310                315                320
Gly Gln Arg Leu His Tyr Asp Leu Gln Lys Gly Ile Trp Val Gly Thr
                325                330                335
Glu Ser Gln Asp Val Pro Trp Glu Glu Leu His Asn Arg Phe Gln Ser
                340                345                350
Leu Cys Gln Ala Pro Pro Pro Leu Lys Asp Lys Val Leu Thr Ala Leu
                355                360                365
Glu Thr Cys Lys Ala Gln Asp Gly Asp Phe Glu Glu Pro Gly Leu Ser
                370                375                380
Ile Trp Thr Asp Leu Leu Leu Ala Leu Arg Ser Gly Ala Phe Arg Lys
385                390                395                400
Arg Gln Val Leu Gly Leu Ser Ala Gly Leu Ser Ser Val
                405                410                413

```

<210> 1095

<211> 344

<212> Amino acid

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(344)

<223> X = any amino acid or stop code

<400> 1095

```

Ser His Leu Ile Gln His Gln Arg Ile His Thr Xaa Glu Xaa Ala His
1          5          10          15
Glu Cys Asn Glu Cys Gly Lys Ala Phe Ser Gln Thr Ser Cys Leu Ile
                20          25          30
Gln His His Lys Met His Arg Lys Glu Lys Ser Tyr Glu Cys Asn Glu
                35          40          45
Tyr Glu Gly Ser Phe Ser His Ser Ser Asp Leu Ile Leu Gln Gln Glu
                50          55          60
Val Leu Thr Arg Gln Lys Ala Phe Asp Cys Asp Val Trp Glu Lys Asn
                65          70          75          80
Ser Ser Gln Arg Ala His Leu Val Gln His Gln Ser Ile His Thr Lys
                85          90          95
Glu Lys Pro His Glu Cys Asn Glu Asp Gly Lys Ile Phe Asn Gln Ile
                100          105          110
Gln Ala Leu Ile Gln His Leu Arg Val His Thr Arg Glu Lys Tyr Val
                115          120          125
Cys Thr Ala Cys Gly Lys Ala Phe Ser His Ser Ser Ala Ile Ala Gln
                130          135          140
His Gln Ile Ile His Thr Arg Glu Lys Pro Ser Glu Cys Asp Glu Xaa
145          150          155          160
Arg Lys Gly Ile Ser Val Lys Leu Leu Ile Asp Ser Cys Arg Ile Tyr
                165          170          175
Thr Ser Glu Lys Ser Tyr Lys Cys Ile Glu Cys Gly Lys Phe Phe Met

```

180	185	190
Leu Leu Val Phe Ser Tyr Leu Ser His Ile Trp Arg Ile His Met Gly		
195	200	205
Ile Lys Phe His Cys Cys Asn Glu Cys Glu Lys Ala Ile Ser Gln Arg		
210	215	220
Asn Tyr Leu Val Xaa Tyr Gln Ile His Ala Met Gln Lys Asp Tyr Lys		
225	230	235
Cys Asn Glu Ala Cys Met Cys Val Arg Arg Phe Ser His Asn Pro Thr		
245	250	255
Leu Ile Gln His Gln Arg Ile Tyr Thr Xaa Glu Asn Leu Phe Gly Cys		
260	265	270
Ser Lys Cys Gly Arg Ser Phe Asn Arg Ser Leu Thr Ser Leu Cys His		
275	280	285
Ile Arg Ile Ser Ile Arg Arg Gln Glu Phe Asp Val Thr Gln Met Glu		
290	295	300
Lys Leu Asp Thr Thr Phe Gln Ala Ser Thr Gln His Arg Asn Asn Gly		
305	310	315
Glu Lys Ile Val Asp Tyr Leu Phe Met Lys Leu Leu Ile His Ser Pro		
325	330	335
Asn Leu Phe His Cys Thr Lys Ile		
340	344	

<210> 1096
 <211> 76
 <212>Amino acid
 <213> Homo sapiens

<400> 1096
Ala Val Thr Leu Thr Ala Lys Ile Cys Ser Phe Thr Pro Glu Pro Ser
1 5 10 15
Glu Thr Met Ser Pro Pro Ala Gly Thr Asn Asn Ser Arg His Ala Ala
20 25 30
Leu Arg Ala Val Thr Leu Pro Val Lys Val Cys Ser Phe Thr Pro Glu
35 40 45
Pro Ala Arg Ser Arg Thr His Gln Lys Glu Glu Thr Pro Asn Thr Ser
50 55 60
Glu His Gln Lys Glu Gln Thr Pro Glu Ala Pro Pro
65 70 75 76

<210> 1097
 <211> 1462
 <212>Amino acid
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1) ... (1462)
 <223> X = any amino acid or stop code

<400> 1097
Met Ala Tyr Ser Trp Gln Thr Asp Pro Asn Pro Asn Glu Ser His Glu
1 5 10 15
Lys Gln Tyr Glu His Gln Glu Phe Leu Phe Val Asn Gln Pro His Ser
20 25 30

Ser Ser Gln Val Ser Leu Gly Phe Asp Gln Ile Val Asp Glu Ile Ser
 35 40 45
 Gly Lys Ile Pro His Tyr Glu Ser Glu Ile Asp Glu Asn Thr Phe Phe
 50 55 60
 Val Pro Thr Ala Pro Lys Trp Asp Ser Thr Gly His Ser Leu Asn Glu
 65 70 75 80
 Ala His Gln Ile Ser Leu Asn Glu Phe Thr Ser Lys Ser Arg Glu Leu
 85 90 95
 Ser Trp His Gln Val Ser Lys Ala Pro Ala Ile Gly Phe Ser Pro Ser
 100 105 110
 Val Leu Pro Lys Pro Gln Asn Thr Asn Lys Glu Cys Ser Trp Gly Ser
 115 120 125
 Pro Ile Gly Lys His His Gly Ala Asp Asp Ser Arg Phe Ser Ile Leu
 130 135 140
 Ala Pro Ser Phe Thr Ser Leu Asp Lys Ile Asn Leu Glu Lys Glu Leu
 145 150 155 160
 Glu Asn Glu Asn His Asn Tyr His Ile Gly Phe Glu Ser Ser Ile Pro
 165 170 175
 Pro Thr Asn Ser Ser Phe Ser Ser Asp Phe Met Pro Lys Glu Glu Asn
 180 185 190
 Lys Arg Ser Gly His Val Asn Ile Val Glu Pro Ser Leu Met Leu Leu
 195 200 205
 Lys Gly Ser Leu Gln Pro Gly Met Trp Glu Ser Thr Trp Gln Lys Asn
 210 215 220
 Ile Glu Ser Ile Gly Cys Ser Ile Gln Leu Val Glu Val Pro Gln Ser
 225 230 235 240
 Ser Asn Thr Ser Leu Ala Ser Phe Cys Asn Lys Val Lys Lys Ile Arg
 245 250 255
 Glu Arg Tyr His Ala Ala Asp Val Asn Phe Asn Ser Gly Lys Ile Trp
 260 265 270
 Ser Thr Thr Thr Ala Phe Pro Tyr Gln Leu Phe Ser Lys Thr Lys Phe
 275 280 285
 Asn Ile His Ile Phe Ile Asp Asn Ser Thr Gln Pro Leu His Phe Met
 290 295 300
 Pro Cys Ala Asn Tyr Leu Val Lys Asp Leu Ile Ala Glu Ile Leu His
 305 310 315 320
 Phe Cys Thr Asn Asp Gln Leu Leu Pro Lys Asp His Ile Leu Ser Val
 325 330 335
 Trp Gly Ser Glu Glu Phe Leu Gln Asn Asp His Cys Leu Gly Ser His
 340 345 350
 Lys Met Phe Gln Lys Asp Lys Ser Val Ile Gln Leu His Leu Gln Lys
 355 360 365
 Ser Arg Glu Ala Pro Gly Lys Leu Ser Arg Lys His Glu Glu Asp His
 370 375 380
 Ser Gln Phe Tyr Leu Asn Gln Leu Leu Glu Phe Met His Ile Trp Lys
 385 390 395 400
 Val Ser Arg Gln Cys Leu Leu Thr Leu Ile Arg Lys Tyr Asp Phe His
 405 410 415
 Leu Lys Tyr Leu Leu Lys Thr Gln Glu Asn Val Tyr Asn Ile Ile Glu
 420 425 430
 Glu Val Lys Lys Ile Cys Ser Val Leu Gly Cys Val Glu Thr Lys Gln
 435 440 445
 Ile Thr Asp Ala Val Asn Glu Leu Ser Leu Ile Leu Gln Arg Lys Gly
 450 455 460
 Glu Asn Phe Tyr Gln Ser Ser Glu Thr Ser Ala Lys Gly Leu Ile Glu
 465 470 475 480
 Lys Val Thr Thr Glu Leu Ser Thr Ser Ile Tyr Gln Leu Ile Asn Val
 485 490 495
 Tyr Cys Asn Ser Phe Tyr Ala Asp Phe Gln Pro Val Asn Val Pro Arg
 500 505 510
 Cys Thr Ser Tyr Leu Asn Pro Gly Leu Pro Ser His Leu Ser Phe Thr
 515 520 525
 Val Tyr Ala Ala His Asn Ile Pro Glu Thr Trp Val His Arg Ile Asn
 530 535 540

Phe Pro Leu Glu Ile Lys Ser Leu Pro Arg Glu Ser Met Leu Thr Val
 545 550 555 560
 Lys Leu Phe Gly Ile Ala Cys Ala Thr Asn Asn Ala Asn Leu Leu Ala
 565 570 575
 Trp Thr Cys Leu Pro Leu Phe Pro Lys Glu Lys Ser Ile Leu Gly Ser
 580 585 590
 Met Leu Phe Ser Met Thr Leu Gln Ser Glu Pro Pro Val Glu Met Ile
 595 600 605
 Thr Pro Gly Val Trp Asp Val Ser Gln Pro Ser Pro Val Thr Leu Gln
 610 615 620
 Ile Asp Phe Pro Ala Thr Gly Trp Glu Tyr Met Lys Pro Asp Ser Glu
 625 630 635 640
 Glu Asn Arg Ser Asn Leu Glu Glu Pro Leu Lys Glu Cys Ile Lys His
 645 650 655
 Ile Ala Arg Leu Ser Gln Lys Gln Thr Pro Leu Leu Leu Ser Glu Glu
 660 665 670
 Lys Lys Arg Tyr Leu Trp Phe Tyr Arg Phe Tyr Cys Asn Asn Glu Asn
 675 680 685
 Cys Ser Leu Pro Leu Val Leu Gly Ser Ala Pro Gly Trp Asp Glu Arg
 690 695 700
 Thr Val Ser Glu Met His Thr Ile Leu Arg Arg Trp Thr Phe Ser Gln
 705 710 715 720
 Pro Leu Glu Ala Leu Gly Leu Leu Thr Ser Ser Phe Pro Asp Gln Glu
 725 730 735
 Ile Arg Lys Val Ala Val Gln Gln Leu Asp Asn Leu Leu Asn Asp Glu
 740 745 750
 Leu Leu Glu Tyr Leu Pro Gln Leu Val Gln Ala Val Lys Phe Glu Trp
 755 760 765
 Asn Leu Glu Ser Pro Leu Val Gln Leu Leu Leu His Arg Ser Leu Gln
 770 775 780
 Ser Ile Gln Val Ala His Arg Leu Tyr Trp Leu Leu Lys Asn Ala Glu
 785 790 795 800
 Asn Glu Ala Tyr Phe Lys Ser Trp Tyr Gln Lys Leu Leu Ala Ala Leu
 805 810 815
 Gln Phe Cys Ala Gly Lys Ala Leu Asn Asp Glu Phe Ser Lys Glu Gln
 820 825 830
 Lys Leu Ile Lys Ile Leu Gly Asp Ile Gly Glu Arg Val Lys Ser Ala
 835 840 845
 Ser Asp His Gln Arg Gln Glu Val Leu Lys Lys Glu Ile Gly Arg Leu
 850 855 860
 Glu Glu Phe Phe Gln Asp Val Asn Thr Cys His Leu Pro Leu Asn Pro
 865 870 875 880
 Ala Leu Cys Ile Lys Gly Ile Asp His Asp Ala Cys Ser Tyr Phe Thr
 885 890 895
 Ser Asn Ala Leu Pro Leu Lys Ile Thr Phe Ile Asn Ala Asn Leu Met
 900 905 910
 Gly Lys Asn Ile Ser Ile Ile Phe Lys Ala Gly Asp Asp Leu Arg Gln
 915 920 925
 Asp Met Leu Val Leu Gln Leu Ile Gln Val Met Asp Asn Ile Trp Leu
 930 935 940
 Gln Glu Gly Leu Asp Met Gln Met Ile Ile Tyr Arg Cys Leu Ser Thr
 945 950 955 960
 Gly Lys Asp Gln Arg Leu Val Gln Met Val Pro Asp Ala Val Thr Leu
 965 970 975
 Ala Lys Ile His Arg His Ser Gly Leu Ile Gly Pro Leu Lys Glu Asn
 980 985 990
 Thr Ile Lys Lys Trp Phe Ser Gln His Asn His Leu Lys Ala Asp Tyr
 995 1000 1005
 Glu Lys Ala Leu Arg Asn Phe Phe Tyr Ser Cys Ala Gly Trp Cys Val
 1010 1015 1020
 Val Thr Phe Ile Leu Gly Val Cys Asp Arg His Asn Asp Asn Ile Met
 1025 1030 1035 1040
 Leu Thr Lys Ser Gly His Met Phe His Ile Asp Phe Gly Lys Phe Leu
 1045 1050 1055

Gly His Ala Gln Thr Phe Gly Gly Ile Lys Arg Asp Arg Ala Pro Phe
 1060 1065 1070
 Ile Phe Thr Ser Glu Met Glu Tyr Phe Ile Thr Glu Gly Gly Lys Asn
 1075 1080 1085
 Pro Gln His Phe Gln Asp Phe Val Glu Leu Cys Cys Arg Ala Tyr Asn
 1090 1095 1100
 Ile Ile Arg Lys His Ser Gln Leu Leu Leu Asn Leu Leu Glu Met Met
 1105 1110 1115 1120
 Leu Tyr Ala Gly Leu Pro Glu Leu Ser Gly Ile Gln Asp Leu Lys Tyr
 1125 1130 1135
 Val Tyr Asn Asn Leu Arg Pro Gln Asp Thr Asp Leu Glu Ala Thr Ser
 1140 1145 1150
 His Phe Thr Lys Lys Ile Lys Glu Ser Leu Glu Cys Phe Pro Val Lys
 1155 1160 1165
 Leu Asn Asn Leu Ile His Thr Leu Ala Gln Met Ser Ala Ile Ser Pro
 1170 1175 1180
 Ala Lys Ser Thr Ser Gln Thr Phe Pro Gln Glu Ser Cys Leu Leu Ser
 1185 1190 1195 1200
 Thr Thr Arg Ser Ile Glu Arg Ala Thr Ile Leu Gly Phe Ser Lys Lys
 1205 1210 1215
 Ser Ser Asn Leu Tyr Leu Ile Gln Val Thr His Ser Asn Asn Glu Thr
 1220 1225 1230
 Ser Leu Thr Glu Lys Ser Phe Glu Gln Phe Ser Lys Leu His Ser Gln
 1235 1240 1245
 Leu Gln Lys Gln Phe Ala Ser Leu Thr Leu Pro Glu Phe Pro His Trp
 1250 1255 1260
 Trp His Leu Pro Phe Thr Asn Ser Asp His Arg Arg Phe Arg Asp Leu
 1265 1270 1275 1280
 Asn His Tyr Met Glu Gln Ile Leu Asn Val Ser His Glu Val Thr Asn
 1285 1290 1295
 Ser Asp Cys Val Leu Ser Phe Phe Leu Ser Glu Ala Gly Gln Gln Thr
 1300 1305 1310
 Val Glu Glu Ser Ser Pro Val Tyr Leu Gly Glu Lys Phe Pro Asp Lys
 1315 1320 1325
 Lys Pro Lys Val Gln Leu Val Ile Ser Tyr Glu Asp Val Lys Leu Thr
 1330 1335 1340
 Ile Leu Val Lys His Met Lys Asn Ile His Leu Pro Asp Gly Ser Ala
 1345 1350 1355 1360
 Pro Ser Ala His Val Glu Phe Tyr Leu Leu Pro Tyr Pro Ser Glu Val
 1365 1370 1375
 Arg Arg Arg Lys Thr Lys Ser Val Pro Lys Cys Thr Asp Pro Thr Tyr
 1380 1385 1390
 Asn Glu Ile Val Val Tyr Asp Glu Val Thr Glu Leu Gln Gly His Val
 1395 1400 1405
 Leu Met Leu Ile Val Lys Ser Lys Thr Val Phe Val Gly Ala Ile Asn
 1410 1415 1420
 Ile Arg Leu Cys Ser Val Pro Leu Asp Lys Glu Lys Trp Tyr Pro Leu
 1425 1430 1435 1440
 Gly Asn Ser Ile Ile Xaa Pro Leu Leu Leu Phe Tyr Thr Ser Asn Phe
 1445 1450 1455
 Met Gln Ser Val Leu His
 1460 1462

<210> 1098

<211> 111

<212> Amino acid

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(111)

<223> X = any amino acid or stop code

<400> 1098

```

Phe Phe Leu Arg Trp Ser Leu Asp Ser Val Thr Gln Ala Gly Val Gln
 1           5           10           15
Ser His Asp Leu Ser Ser Leu Gln Pro Pro Pro Gly Phe Lys Gln
           20           25           30
Ser Ser Leu Phe Gly Leu Pro Ser Ser Trp Glu Xaa Arg Trp Val Pro
           35           40           45
Pro Cys Pro Ala Asn Phe Phe Val Phe Leu Val Glu Thr Gly Phe Arg
           50           55           60
His Val Gly Gln Ala Gly Leu Glu Leu Leu Thr Ser Asn Asp Leu Pro
           65           70           75           80
Val Ser Ala Cys Gln Ser Ala Gly Ile Thr Gly Val Thr Thr Val Pro
           85           90           95
Gln Arg Lys Ser Met Ile Leu Tyr Glu Val Thr Ile Cys Tyr Pro
           100           105           110 111

```

<210> 1099

<211> 1070

<212>Amino acid

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1) ... (1070)

<223> X = any amino acid or stop code

<400> 1099

```

Phe Val Arg Glu Ile Arg Gly Pro Ala Val Pro Arg Leu Thr Ser Ala
 1           5           10           15
Glu Asp Arg His Arg His Gly Pro His Ala His Ser Pro Glu Leu Gln
           20           25           30
Arg Thr Gly Arg Asp Tyr Ser Leu Asp Tyr Leu Pro Phe Arg Leu Trp
           35           40           45
Val Gly Ile Trp Val Ala Thr Phe Cys Leu Val Leu Val Ala Thr Glu
           50           55           60
Ala Ser Val Leu Val Arg Tyr Phe Thr Arg Phe Thr Glu Glu Gly Phe
           65           70           75           80
Cys Ala Leu Ile Ser Leu Ile Phe Ile Tyr Asp Ala Val Gly Lys Met
           85           90           95
Leu Asn Leu Thr His Thr Tyr Pro Ile Gln Lys Pro Gly Ser Ser Ala
           100           105           110
Tyr Gly Cys Leu Cys Gln Tyr Pro Gly Pro Gly Gly Asn Glu Ser Gln
           115           120           125
Trp Ile Arg Thr Arg Pro Lys Asp Arg Asp Asp Ile Val Ser Met Asp
           130           135           140
Leu Gly Leu Ile Asn Ala Ser Leu Leu Pro Pro Pro Glu Cys Thr Arg
           145           150           155           160
Gln Gly Gly His Pro Arg Gly Pro Gly Cys His Thr Val Pro Asp Ile
           165           170           175
Ala Phe Phe Ser Leu Leu Leu Phe Leu Thr Ser Phe Phe Phe Ala Met
           180           185           190
Ala Leu Lys Cys Val Lys Thr Ser Arg Phe Phe Pro Ser Val Val Arg
           195           200           205
Lys Gly Leu Ser Asp Phe Ser Ser Val Leu Ala Ile Leu Leu Gly Cys
           210           215           220

```

Gly	Leu	Asp	Ala	Phe	Leu	Gly	Leu	Ala	Thr	Pro	Lys	Leu	Met	Val	Pro	225	230	235	240
Arg	Glu	Phe	Lys	Pro	Thr	Leu	Pro	Gly	Arg	Gly	Trp	Leu	Val	Ser	Pro	245	250	255	
Phe	Gly	Ala	Asn	Pro	Trp	Trp	Trp	Ser	Val	Ala	Ala	Ala	Leu	Pro	Ala	260	265	270	
Leu	Leu	Leu	Ser	Ile	Leu	Ile	Phe	Met	Asp	Gln	Gln	Ile	Thr	Ala	Val	275	280	285	
Ile	Leu	Asn	Arg	Met	Glu	Tyr	Arg	Leu	Gln	Lys	Gly	Ala	Gly	Phe	His	290	295	300	
Leu	Asp	Leu	Phe	Trp	Val	Ala	Val	Leu	Met	Leu	Leu	Thr	Ser	Ala	Leu	305	310	315	320
Gly	Leu	Pro	Trp	Tyr	Val	Ser	Ala	Thr	Val	Ile	Ser	Leu	Ala	His	Met	325	330	335	
Asp	Ser	Leu	Arg	Arg	Glu	Ser	Arg	Ala	Cys	Ala	Pro	Gly	Glu	Arg	Pro	340	345	350	
Asn	Phe	Leu	Gly	Ile	Arg	Glu	Gln	Arg	Leu	Thr	Gly	Leu	Val	Val	Phe	355	360	365	
Ile	Leu	Thr	Gly	Ala	Ser	Ile	Phe	Leu	Ala	Pro	Val	Leu	Lys	Phe	Ile	370	375	380	
Pro	Met	Pro	Val	Leu	Tyr	Gly	Ile	Phe	Leu	Tyr	Met	Gly	Val	Ala	Ala	385	390	395	400
Leu	Ser	Ser	Ile	Gln	Phe	Thr	Asn	Arg	Val	Lys	Leu	Leu	Leu	Met	Pro	405	410	415	
Ala	Lys	His	Gln	Pro	Asp	Leu	Leu	Leu	Leu	Arg	His	Val	Pro	Leu	Thr	420	425	430	
Arg	Val	His	Leu	Phe	Thr	Ala	Ile	Ser	Phe	Ala	Cys	Leu	Gly	Leu	Leu	435	440	445	
Trp	Ile	Ile	Lys	Ser	Thr	Pro	Ala	Ala	Ile	Ile	Phe	Pro	Leu	Met	Leu	450	455	460	
Leu	Gly	Leu	Val	Gly	Val	Arg	Lys	Ala	Leu	Glu	Arg	Val	Phe	Ser	Pro	465	470	475	480
Gln	Glu	Leu	Leu	Trp	Leu	Asp	Glu	Leu	Met	Pro	Glu	Glu	Glu	Arg	Ser	485	490	495	
Ile	Pro	Glu	Lys	Gly	Leu	Glu	Pro	Glu	His	Ser	Phe	Ser	Gly	Ser	Asp	500	505	510	
Ser	Glu	Asp	Ser	Glu	Leu	Met	Tyr	Gln	Pro	Lys	Ala	Pro	Glu	Ile	Asn	515	520	525	
Ile	Ser	Val	Asn	Xaa	Leu	Glu	Xaa	Glu	Phe	Val	Arg	Glu	Ile	Arg	Gly	530	535	540	
Pro	Ala	Val	Pro	Arg	Leu	Thr	Ser	Ala	Glu	Asp	Arg	His	Arg	His	Gly	545	550	555	560
Pro	His	Ala	His	Ser	Pro	Glu	Leu	Gln	Arg	Thr	Gly	Arg	Asp	Tyr	Ser	565	570	575	
Leu	Asp	Tyr	Leu	Pro	Phe	Arg	Leu	Trp	Val	Gly	Ile	Trp	Val	Ala	Thr	580	585	590	
Phe	Cys	Leu	Val	Leu	Val	Ala	Thr	Glu	Ala	Ser	Val	Leu	Val	Arg	Tyr	595	600	605	
Phe	Thr	Arg	Phe	Thr	Glu	Glu	Gly	Phe	Cys	Ala	Leu	Ile	Ser	Leu	Ile	610	615	620	
Phe	Ile	Tyr	Asp	Ala	Val	Gly	Lys	Met	Leu	Asn	Leu	Thr	His	Thr	Tyr	625	630	635	640
Pro	Ile	Gln	Lys	Pro	Gly	Ser	Ser	Ala	Tyr	Gly	Cys	Leu	Cys	Gln	Tyr	645	650	655	
Pro	Gly	Pro	Gly	Gly	Asn	Glu	Ser	Gln	Trp	Ile	Arg	Thr	Arg	Pro	Lys	660	665	670	
Asp	Arg	Asp	Asp	Ile	Val	Ser	Met	Asp	Leu	Gly	Leu	Ile	Asn	Ala	Ser	675	680	685	
Leu	Leu	Pro	Pro	Pro	Glu	Cys	Thr	Arg	Gln	Gly	Gly	His	Pro	Arg	Gly	690	695	700	
Pro	Gly	Cys	His	Thr	Val	Pro	Asp	Ile	Ala	Phe	Phe	Ser	Leu	Leu	Leu	705	710	715	720
Phe	Leu	Thr	Ser	Phe	Phe	Phe	Ala	Met	Ala	Leu	Lys	Cys	Val	Lys	Thr	725	730	735	

```

Ser Arg Phe Phe Pro Ser Val Val Arg Lys Gly Leu Ser Asp Phe Ser
      740      745      750
Ser Val Leu Ala Ile Leu Leu Gly Cys Gly Leu Asp Ala Phe Leu Gly
      755      760      765
Leu Ala Thr Pro Lys Leu Met Val Pro Arg Glu Phe Lys Pro Thr Leu
      770      775      780
Pro Gly Arg Gly Trp Leu Val Ser Pro Phe Gly Ala Asn Pro Trp Trp
      785      790      795      800
Trp Ser Val Ala Ala Leu Pro Ala Leu Leu Leu Ser Ile Leu Ile
      805      810      815
Phe Met Asp Gln Gln Ile Thr Ala Val Ile Leu Asn Arg Met Glu Tyr
      820      825      830
Arg Leu Gln Lys Gly Ala Gly Phe His Leu Asp Leu Phe Cys Val Ala
      835      840      845
Val Leu Met Leu Leu Thr Ser Ala Leu Gly Leu Pro Trp Tyr Val Ser
      850      855      860
Ala Thr Val Ile Ser Leu Ala His Met Asp Ser Leu Arg Arg Glu Ser
      865      870      875      880
Arg Ala Cys Ala Pro Gly Glu Arg Pro Asn Phe Leu Gly Ile Arg Glu
      885      890      895
Gln Arg Leu Thr Gly Leu Val Val Phe Ile Leu Thr Gly Ala Ser Ile
      900      905      910
Phe Leu Ala Pro Val Leu Lys Phe Ile Pro Met Pro Val Leu Tyr Gly
      915      920      925
Ile Phe Leu Tyr Met Gly Val Ala Ala Leu Ser Ser Ile Gln Phe Thr
      930      935      940
Asn Arg Val Lys Leu Leu Leu Asp Ala Ser Lys Thr Pro Ala Arg Pro
      945      950      955      960
Ala Thr Leu Ala Ala Cys Ala Ser Asp Gln Gly Pro Pro Leu His Ser
      965      970      975
His Gln Leu Cys Pro Val Trp Gly Cys Phe Gly Ile Ile Lys Ser Thr
      980      985      990
Pro Ala Ala Ile Ile Phe Pro Leu Met Leu Leu Gly Leu Val Gly Val
      995      1000      1005
Arg Lys Ala Leu Glu Arg Val Phe Ser Pro Gln Glu Leu Leu Trp Leu
      1010      1015      1020
Asp Glu Leu Met Pro Glu Glu Glu Arg Ser Ile Pro Glu Lys Gly Leu
      1025      1030      1035      1040
Glu Pro Glu His Ser Phe Ser Gly Ser Asp Ser Glu Asp Ser Glu Leu
      1045      1050      1055
Met Tyr Gln Pro Lys Ala Pro Glu Ile Asn Ile Ser Val Asn
      1060      1065      1070

```

<210> 1100

<211> 875

<212> Amino acid

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(875)

<223> X = any amino acid or stop code

<400> 1100

```

Met Gly Leu Lys Ala Arg Arg Ala Ala Gly Ala Ala Gly Gly Gly Gly
  1           5           10           15
Asp Gly Gly Gly Gly Gly Gly Gly Ala Ala Asn Pro Ala Gly Gly Asp
      20           25           30
Ala Ala Ala Ala Gly Asp Glu Glu Arg Lys Val Gly Leu Ala Pro Gly

```

620

```

545          550          555          560
Arg Ile Lys Tyr Leu Gln Thr Arg Ile Asp Met Ile Phe Thr Pro Gly
          565          570          575
Pro Pro Ser Thr Pro Lys His Lys Lys Ser Gln Lys Gly Ser Ala Phe
          580          585          590
Thr Phe Pro Ser Gln Gln Ser Pro Arg Asn Glu Pro Tyr Val Ala Arg
          595          600          605
Pro Ser Thr Ser Glu Ile Glu Asp Gln Arg His Xaa Trp Gly Lys Phe
          610          615          620
Val Lys Ser Leu Lys Gly Gln Val Gln Gly Leu Gly Arg Lys Leu Asp
625          630          635          640
Phe Leu Val Asp Met His Met Gln His Met Glu Arg Leu Gln Val Gln
          645          650          655
Val Thr Glu Tyr Tyr Pro Thr Lys Gly Thr Ser Ser Pro Ala Glu Ala
          660          665          670
Glu Lys Lys Glu Asp Asn Arg Tyr Ser Asp Leu Lys Thr Ile Ile Cys
          675          680          685
Asn Tyr Ser Glu Thr Gly Pro Pro Glu Pro Pro Tyr Ser Phe His Gln
          690          695          700
Val Thr Ile Asp Lys Val Ser Pro Tyr Gly Phe Phe Ala His Asp Pro
705          710          715          720
Val Asn Leu Pro Arg Gly Gly Pro Ser Ser Gly Lys Val Gln Ala Thr
          725          730          735
Pro Pro Ser Ser Ala Thr Thr Tyr Val Glu Arg Pro Thr Val Leu Pro
          740          745          750
Ile Leu Thr Leu Leu Asp Ser Arg Val Ser Cys His Ser Gln Ala Asp
          755          760          765
Leu Gln Gly Pro Tyr Ser Asp Arg Ile Ser Pro Arg Gln Arg Arg Ser
          770          775          780
Ile Thr Arg Asp Ser Asp Thr Pro Leu Ser Leu Met Ser Val Asn His
785          790          795          800
Glu Glu Leu Glu Arg Ser Pro Ser Gly Phe Ser Ile Ser Gln Asp Arg
          805          810          815
Asp Asp Tyr Val Phe Gly Pro Asn Gly Gly Ser Ser Trp Met Arg Glu
          820          825          830
Lys Arg Tyr Leu Ala Glu Gly Glu Thr Asp Thr Asp Thr Asp Pro Phe
          835          840          845
Thr Pro Ser Gly Ser Met Pro Leu Ser Ser Thr Gly Asp Gly Ile Ser
          850          855          860
Asp Ser Val Trp Thr Pro Ser Asn Lys Pro Ile
865          870          875

```

<210> 1101

<211> 3530

<212> Amino acid

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(3530)

<223> X = any amino acid or stop code

<400> 1101

```

Arg Thr Arg Gly Ile Ile Glu Phe Asp Pro Lys Tyr Thr Ala Phe Glu
1          5          10          15
Val Glu Glu Asp Val Gly Leu Ile Met Ile Pro Val Val Arg Leu His
          20          25          30
Gly Thr Tyr Gly Tyr Val Thr Ala Asp Phe Ile Ser Gln Ser Ser Ser
          35          40          45

```

Ala	Ser	Pro	Gly	Gly	Val	Asp	Tyr	Ile	Leu	His	Gly	Ser	Thr	Val	Thr	50	55	60
Phe	Gln	His	Gly	Gln	Asn	Leu	Ser	Phe	Ile	Asn	Ile	Ser	Ile	Ile	Asp	65	70	75
Asp	Asn	Glu	Ser	Glu	Phe	Glu	Glu	Pro	Ile	Glu	Ile	Leu	Leu	Thr	Gly	85	90	95
Ala	Thr	Gly	Gly	Ala	Val	Leu	Gly	Arg	His	Leu	Val	Ser	Arg	Ile	Ile	100	105	110
Ile	Ala	Lys	Ser	Asp	Ser	Pro	Phe	Gly	Val	Ile	Arg	Phe	Leu	Asn	Gln	115	120	125
Ser	Lys	Ile	Ser	Ile	Ala	Asn	Pro	Asn	Ser	Thr	Met	Ile	Leu	Ser	Leu	130	135	140
Val	Leu	Glu	Arg	Thr	Gly	Gly	Leu	Leu	Gly	Glu	Ile	Gln	Val	Asn	Trp	145	150	155
Glu	Thr	Val	Gly	Pro	Asn	Ser	Gln	Glu	Ala	Leu	Leu	Pro	Gln	Asn	Arg	165	170	175
Asp	Ile	Ala	Asp	Pro	Val	Ser	Gly	Leu	Phe	Tyr	Phe	Gly	Glu	Gly	Glu	180	185	190
Gly	Gly	Val	Arg	Thr	Ile	Ile	Leu	Thr	Ile	Tyr	Pro	His	Glu	Glu	Ile	195	200	205
Glu	Val	Glu	Glu	Thr	Phe	Ile	Ile	Lys	Leu	His	Leu	Val	Lys	Gly	Glu	210	215	220
Ala	Lys	Leu	Asp	Ser	Arg	Ala	Lys	Asp	Val	Thr	Leu	Thr	Ile	Gln	Glu	225	230	235
Phe	Gly	Asp	Pro	Asn	Gly	Val	Val	Gln	Phe	Ala	Pro	Glu	Thr	Leu	Ser	245	250	255
Lys	Lys	Thr	Tyr	Ser	Glu	Pro	Leu	Ala	Leu	Glu	Gly	Pro	Leu	Leu	Ile	260	265	270
Thr	Phe	Phe	Val	Arg	Arg	Val	Lys	Gly	Thr	Phe	Gly	Glu	Ile	Met	Val	275	280	285
Tyr	Trp	Glu	Leu	Ser	Ser	Glu	Phe	Asp	Ile	Thr	Glu	Asp	Phe	Leu	Ser	290	295	300
Thr	Ser	Gly	Phe	Phe	Thr	Ile	Ala	Asp	Gly	Glu	Ser	Glu	Ala	Ser	Phe	305	310	315
Asp	Val	His	Leu	Leu	Pro	Asp	Glu	Val	Pro	Glu	Ile	Glu	Glu	Asp	Tyr	325	330	335
Val	Ile	Gln	Leu	Val	Ser	Val	Glu	Gly	Gly	Ala	Glu	Leu	Asp	Leu	Glu	340	345	350
Lys	Ser	Ile	Thr	Trp	Phe	Ser	Val	Tyr	Ala	Asn	Asp	Asp	Pro	His	Gly	355	360	365
Val	Phe	Ala	Leu	Tyr	Ser	Asp	Arg	Gln	Ser	Ile	Leu	Ile	Gly	Gln	Asn	370	375	380
Leu	Ile	Arg	Ser	Ile	Gln	Ile	Asn	Ile	Thr	Arg	Leu	Ala	Gly	Thr	Phe	385	390	395
Gly	Asp	Val	Ala	Val	Gly	Leu	Arg	Ile	Ser	Ser	Asp	His	Lys	Glu	Gln	405	410	415
Pro	Ile	Val	Thr	Glu	Asn	Ala	Glu	Arg	Gln	Leu	Val	Val	Lys	Asp	Gly	420	425	430
Ala	Thr	Tyr	Lys	Val	Asp	Val	Val	Pro	Ile	Lys	Asn	Gln	Val	Phe	Leu	435	440	445
Ser	Leu	Gly	Ser	Asn	Phe	Thr	Leu	Gln	Leu	Val	Thr	Val	Met	Leu	Val	450	455	460
Gly	Gly	Arg	Phe	Tyr	Gly	Met	Pro	Thr	Ile	Leu	Gln	Glu	Ala	Lys	Ser	465	470	475
Ala	Val	Leu	Pro	Val	Ser	Glu	Lys	Ala	Ala	Asn	Ser	Gln	Val	Gly	Phe	485	490	495
Glu	Ser	Thr	Ala	Phe	Gln	Leu	Met	Asn	Ile	Thr	Ala	Gly	Thr	Ser	His	500	505	510
Val	Met	Ile	Ser	Arg	Arg	Gly	Thr	Tyr	Gly	Ala	Leu	Ser	Val	Ala	Trp	515	520	525
Thr	Thr	Gly	Tyr	Ala	Pro	Gly	Leu	Glu	Ile	Pro	Glu	Phe	Ile	Val	Val	530	535	540
Gly	Asn	Met	Thr	Pro	Thr	Leu	Gly	Ser	Leu	Ser	Phe	Ser	His	Gly	Glu	545	550	555

Gln Arg Lys Gly Val Phe Leu Trp Thr Phe Pro Ser Pro Gly Trp Pro
 565 570 575
 Glu Ala Phe Val Leu His Leu Ser Gly Val Gln Ser Ser Ala Pro Gly
 580 585 590
 Gly Ala Gln Leu Arg Ser Gly Phe Ile Val Ala Glu Ile Glu Pro Met
 595 600 605
 Gly Val Phe Gln Phe Ser Thr Ser Ser Arg Asn Ile Ile Val Ser Glu
 610 615 620
 Asp Thr Gln Met Ile Arg Leu His Val Gln Arg Leu Phe Gly Phe His
 625 630 635 640
 Ser Asp Leu Ile Lys Val Ser Tyr Gln Thr Thr Ala Gly Ser Ala Lys
 645 650 655
 Pro Leu Glu Asp Phe Glu Pro Val Gln Asn Gly Glu Leu Phe Phe Gln
 660 665 670
 Lys Phe Gln Thr Glu Val Asp Phe Glu Ile Thr Ile Ile Asn Asp Gln
 675 680 685
 Leu Ser Glu Ile Glu Glu Phe Phe Tyr Ile Asn Leu Thr Ser Val Glu
 690 695 700
 Ile Arg Gly Leu Gln Lys Phe Asp Val Asn Trp Ser Pro Arg Leu Asn
 705 710 715 720
 Leu Asp Phe Ser Val Ala Val Ile Thr Ile Leu Asp Asn Asp Asp Leu
 725 730 735
 Ala Gly Met Asp Ile Ser Phe Pro Glu Thr Thr Val Ala Val Ala Val
 740 745 750
 Asp Thr Thr Leu Ile Pro Val Glu Thr Glu Ser Thr Thr Tyr Leu Ser
 755 760 765
 Thr Ser Lys Thr Thr Thr Ile Leu Gln Pro Thr Asn Val Val Ala Ile
 770 775 780
 Val Thr Glu Ala Thr Gly Val Ser Ala Ile Pro Glu Lys Leu Val Thr
 785 790 795 800
 Leu His Gly Thr Pro Ala Val Ser Glu Lys Pro Asp Val Ala Thr Val
 805 810 815
 Thr Ala Asn Val Ser Ile His Gly Thr Phe Ser Leu Gly Pro Ser Ile
 820 825 830
 Val Tyr Ile Glu Glu Glu Met Lys Asn Gly Thr Phe Asn Thr Ala Glu
 835 840 845
 Val Leu Ile Arg Arg Thr Gly Phe Thr Gly Asn Val Ser Ile Thr
 850 855 860
 Val Lys Thr Phe Gly Glu Arg Cys Ala Gln Met Glu Pro Asn Ala Leu
 865 870 875 880
 Pro Phe Arg Gly Ile Tyr Gly Ile Ser Asn Leu Thr Trp Ala Val Glu
 885 890 895
 Glu Glu Asp Phe Glu Glu Gln Thr Leu Thr Leu Ile Phe Leu Asp Gly
 900 905 910
 Glu Arg Glu Arg Lys Val Ser Val Gln Ile Leu Asp Asp Asp Glu Pro
 915 920 925
 Glu Gly Gln Glu Phe Phe Tyr Val Phe Leu Thr Asn Pro Gln Gly Gly
 930 935 940
 Ala Gln Ile Val Glu Gly Lys Asp Asp Thr Gly Phe Ala Ala Phe Ala
 945 950 955 960
 Met Val Ile Ile Thr Gly Ser Asp Leu His Asn Gly Ile Ile Gly Phe
 965 970 975
 Ser Glu Glu Ser Gln Ser Gly Leu Glu Leu Arg Glu Gly Ala Val Met
 980 985 990
 Arg Arg Leu His Leu Ile Val Thr Arg Gln Pro Asn Arg Ala Phe Glu
 995 1000 1005
 Asp Val Lys Val Phe Trp Arg Val Thr Leu Asn Lys Thr Val Val Val
 1010 1015 1020
 Leu Gln Lys Asp Gly Val Asn Leu Met Glu Glu Leu Gln Ser Val Ser
 1025 1030 1035 1040
 Gly Thr Thr Thr Cys Thr Met Gly Gln Thr Lys Cys Phe Ile Ser Ile
 1045 1050 1055
 Glu Leu Lys Pro Glu Lys Val Pro Gln Val Glu Val Tyr Phe Phe Val
 1060 1065 1070

Glu Leu Tyr Glu Ala Thr Ala Gly Ala Ala Ile Asn Asn Ser Ala Arg
 1075 1080 1085
 Phe Ala Gln Ile Lys Ile Leu Glu Ser Asp Glu Ser Gln Ser Leu Val
 1090 1095 1100
 Tyr Phe Ser Val Gly Ser Arg Leu Ala Val Ala His Lys Lys Ala Thr
 1105 1110 1115 1120
 Leu Ile Ser Leu Gln Val Ala Arg Asp Ser Gly Thr Gly Leu Met Met
 1125 1130 1135
 Ser Val Asn Phe Ser Thr Gln Glu Leu Arg Ser Ala Glu Thr Ile Gly
 1140 1145 1150
 Arg Thr Ile Ile Ser Pro Ala Ile Ser Gly Lys Asp Phe Val Ile Thr
 1155 1160 1165
 Glu Gly Thr Leu Val Phe Glu Pro Gly Gln Arg Ser Thr Val Leu Asp
 1170 1175 1180
 Val Ile Leu Thr Pro Glu Thr Gly Ser Leu Asn Ser Phe Pro Lys Arg
 1185 1190 1195 1200
 Phe Gln Ile Val Leu Phe Asp Pro Lys Gly Gly Ala Arg Ile Asp Lys
 1205 1210 1215
 Val Tyr Gly Thr Ala Asn Ile Thr Leu Val Ser Asp Ala Asp Ser Gln
 1220 1225 1230
 Ala Ile Trp Gly Leu Ala Asp Gln Leu His Gln Pro Val Asn Asp Asp
 1235 1240 1245
 Ile Leu Asn Arg Val Leu His Thr Ile Ser Met Lys Val Ala Thr Glu
 1250 1255 1260
 Asn Thr Asp Glu Gln Leu Ser Ala Met Met His Leu Ile Glu Lys Ile
 1265 1270 1275 1280
 Thr Thr Glu Gly Lys Ile Gln Ala Phe Ser Val Ala Ser Arg Thr Leu
 1285 1290 1295
 Phe Tyr Glu Ile Leu Cys Ser Leu Ile Asn Pro Lys Arg Lys Asp Thr
 1300 1305 1310
 Arg Gly Phe Ser His Phe Ala Glu Leu Thr Glu Asn Phe Ala Phe Ser
 1315 1320 1325
 Leu Leu Thr Asn Val Thr Cys Gly Ser Pro Gly Glu Lys Ser Lys Thr
 1330 1335 1340
 Ile Leu Asp Ser Cys Pro Tyr Leu Ser Ile Leu Ala Leu His Trp Tyr
 1345 1350 1355 1360
 Pro Gln Gln Ile Asn Gly His Lys Phe Glu Gly Lys Glu Gly Asp Tyr
 1365 1370 1375
 Ile Arg Ile Pro Glu Arg Leu Leu Asp Val Gln Asp Ala Glu Ile Met
 1380 1385 1390
 Ala Gly Lys Ser Thr Cys Lys Leu Val Gln Phe Thr Glu Tyr Ser Ser
 1395 1400 1405
 Gln Gln Trp Phe Ile Ser Gly Asn Asn Leu Pro Thr Leu Lys Asn Lys
 1410 1415 1420
 Val Leu Ser Leu Ser Val Lys Gly Gln Ser Ser Gln Leu Leu Thr Asn
 1425 1430 1435 1440
 Asp Asn Glu Val Leu Tyr Arg Ile Tyr Ala Ala Glu Pro Arg Ile Ile
 1445 1450 1455
 Pro Gln Thr Ser Leu Cys Leu Leu Trp Asn Gln Ala Ala Ala Ser Trp
 1460 1465 1470
 Leu Ser Asp Ser Gln Phe Cys Lys Val Ile Glu Glu Thr Ala Asp Tyr
 1475 1480 1485
 Val Glu Cys Ala Cys Leu His Met Ser Val Tyr Ala Val Tyr Ala Arg
 1490 1495 1500
 Thr Asp Asn Leu Ser Ser Tyr Asn Glu Ala Phe Phe Thr Ser Gly Phe
 1505 1510 1515 1520
 Ile Cys Ile Ser Gly Leu Cys Leu Ala Val Leu Ser His Ile Phe Cys
 1525 1530 1535
 Ala Arg Tyr Ser Met Phe Ala Ala Lys Leu Leu Thr His Met Met Ala
 1540 1545 1550
 Ala Ser Leu Gly Thr Gln Ile Leu Phe Leu Ala Ser Ala Tyr Ala Ser
 1555 1560 1565
 Pro Gln Leu Ala Glu Glu Ser Cys Ser Ala Met Ala Ala Val Thr His
 1570 1575 1580

Tyr Leu Tyr Leu Cys Gln Phe Ser Trp Met Leu Ile Gln Ser Val Asn
 1585 1590 1595 1600
 Phe Trp Tyr Val Leu Val Met Asn Asp Glu His Thr Glu Arg Arg Tyr
 1605 1610 1615
 Leu Leu Phe Phe Leu Leu Ser Trp Gly Leu Pro Ala Phe Val Val Ile
 1620 1625 1630
 Leu Leu Ile Val Ile Leu Lys Gly Ile Tyr His Gln Ser Met Ser Gln
 1635 1640 1645
 Ile Tyr Gly Leu Ile His Gly Asp Leu Cys Phe Ile Pro Asn Val Tyr
 1650 1655 1660
 Ala Ala Leu Phe Thr Ala Ala Leu Val Pro Leu Thr Cys Leu Val Val
 1665 1670 1675 1680
 Val Phe Val Val Phe Ile His Ala Tyr Gln Val Lys Pro Gln Trp Lys
 1685 1690 1695
 Ala Tyr Asp Asp Val Phe Arg Gly Arg Thr Asn Ala Ala Glu Ile Pro
 1700 1705 1710
 Leu Ile Leu Tyr Leu Phe Ala Leu Ile Ser Val Thr Trp Leu Trp Gly
 1715 1720 1725
 Gly Leu His Met Ala Tyr Arg His Phe Trp Met Leu Val Leu Phe Val
 1730 1735 1740
 Ile Phe Asn Ser Leu Gln Leu Leu Tyr Pro Leu Phe Tyr Phe Leu Leu
 1745 1750 1755 1760
 Leu Xaa Asp Gln Ser Ser Ala Ser Pro Gly Gly Val Asp Tyr Ile
 1765 1770 1775
 Leu His Gly Ser Thr Val Thr Phe Gln His Gly Gln Asn Leu Ser Phe
 1780 1785 1790
 Ile Asn Ile Ser Ile Ile Asp Asp Asn Glu Ser Glu Phe Glu Glu Pro
 1795 1800 1805
 Ile Glu Ile Leu Leu Thr Gly Ala Thr Gly Gly Ala Val Leu Gly Arg
 1810 1815 1820
 His Leu Val Ser Arg Ile Ile Ala Lys Ser Asp Ser Pro Phe Gly
 1825 1830 1835 1840
 Val Ile Arg Phe Leu Asn Gln Ser Lys Ile Ser Ile Ala Asn Pro Asn
 1845 1850 1855
 Ser Thr Met Ile Leu Ser Leu Val Leu Glu Arg Thr Gly Gly Leu Leu
 1860 1865 1870
 Gly Glu Ile Gln Val Asn Trp Glu Thr Val Gly Pro Asn Ser Gln Glu
 1875 1880 1885
 Ala Leu Leu Pro Gln Asn Arg Asp Ile Ala Asp Pro Val Ser Gly Leu
 1890 1895 1900
 Phe Tyr Phe Gly Glu Gly Glu Gly Gly Val Arg Thr Ile Ile Leu Thr
 1905 1910 1915 1920
 Ile Tyr Pro His Glu Glu Ile Glu Val Glu Glu Thr Phe Ile Ile Lys
 1925 1930 1935
 Leu His Leu Val Lys Gly Glu Ala Lys Leu Asp Ser Arg Ala Lys Asp
 1940 1945 1950
 Val Thr Leu Thr Ile Gln Glu Phe Gly Asp Pro Asn Gly Val Val Gln
 1955 1960 1965
 Phe Ala Pro Glu Thr Leu Ser Lys Lys Thr Tyr Ser Glu Pro Leu Ala
 1970 1975 1980
 Leu Glu Gly Pro Leu Leu Ile Thr Phe Phe Val Arg Arg Val Lys Gly
 1985 1990 1995 2000
 Thr Phe Gly Glu Ile Met Val Tyr Trp Glu Leu Ser Ser Glu Phe Asp
 2005 2010 2015
 Ile Thr Glu Asp Phe Leu Ser Thr Ser Gly Phe Phe Thr Ile Ala Asp
 2020 2025 2030
 Gly Glu Ser Glu Ala Ser Phe Asp Val His Leu Leu Pro Asp Glu Val
 2035 2040 2045
 Pro Glu Ile Glu Glu Asp Tyr Val Ile Gln Leu Val Ser Val Glu Gly
 2050 2055 2060
 Gly Ala Glu Leu Asp Leu Glu Lys Ser Ile Thr Trp Phe Ser Val Tyr
 2065 2070 2075 2080
 Ala Asn Asp Asp Pro His Gly Val Phe Ala Leu Tyr Ser Asp Arg Gln
 2085 2090 2095

Ser Ile Leu Ile Gly Gln Asn Leu Ile Arg Ser Ile Gln Ile Asn Ile
 2100 2105 2110
 Thr Arg Leu Ala Gly Thr Phe Gly Asp Val Ala Val Gly Leu Arg Ile
 2115 2120 2125
 Ser Ser Asp His Lys Glu Gln Pro Ile Val Thr Glu Asn Ala Glu Arg
 2130 2135 2140
 Gln Leu Val Val Lys Asp Gly Ala Thr Tyr Lys Val Asp Val Val Pro
 2145 2150 2155 2160
 Ile Lys Asn Gln Val Phe Leu Ser Leu Gly Ser Asn Phe Thr Leu Gln
 2165 2170 2175
 Leu Val Thr Val Met Leu Val Gly Gly Arg Phe Tyr Gly Met Pro Thr
 2180 2185 2190
 Ile Leu Gln Glu Ala Lys Ser Ala Val Leu Pro Val Ser Glu Lys Ala
 2195 2200 2205
 Ala Asn Ser Gln Val Gly Phe Glu Ser Thr Ala Phe Gln Leu Met Asn
 2210 2215 2220
 Ile Thr Ala Gly Thr Ser His Val Met Ile Ser Arg Arg Gly Thr Tyr
 2225 2230 2235 2240
 Gly Ala Leu Ser Val Ala Trp Thr Thr Gly Tyr Ala Pro Gly Leu Glu
 2245 2250 2255
 Ile Pro Glu Phe Ile Val Val Gly Asn Met Thr Pro Thr Leu Gly Ser
 2260 2265 2270
 Leu Ser Phe Ser His Gly Glu Gln Arg Lys Gly Val Phe Leu Trp Thr
 2275 2280 2285
 Phe Pro Ser Pro Gly Trp Pro Glu Ala Phe Val Leu His Leu Ser Gly
 2290 2295 2300
 Val Gln Ser Ser Ala Pro Gly Gly Ala Gln Leu Arg Ser Gly Phe Ile
 2305 2310 2315 2320
 Val Ala Glu Ile Glu Pro Met Gly Val Phe Gln Phe Ser Thr Ser Ser
 2325 2330 2335
 Arg Asn Ile Ile Val Ser Glu Asp Thr Gln Met Ile Arg Leu His Val
 2340 2345 2350
 Gln Arg Leu Phe Gly Phe His Ser Asp Leu Ile Lys Val Ser Tyr Gln
 2355 2360 2365
 Thr Thr Ala Gly Ser Ala Lys Pro Leu Glu Asp Phe Glu Pro Val Gln
 2370 2375 2380
 Asn Gly Glu Leu Phe Phe Gln Lys Phe Gln Thr Glu Val Asp Phe Glu
 2385 2390 2395 2400
 Ile Thr Ile Ile Asn Asp Gln Leu Ser Glu Ile Glu Glu Phe Phe Tyr
 2405 2410 2415
 Ile Asn Leu Thr Ser Val Glu Ile Arg Gly Leu Gln Lys Phe Asp Val
 2420 2425 2430
 Asn Trp Ser Pro Arg Leu Asn Leu Asp Phe Ser Val Ala Val Ile Thr
 2435 2440 2445
 Ile Leu Asp Asn Asp Asp Leu Ala Gly Met Asp Ile Ser Phe Pro Glu
 2450 2455 2460
 Thr Thr Val Ala Val Ala Val Asp Thr Thr Leu Ile Pro Val Glu Thr
 2465 2470 2475 2480
 Glu Ser Thr Thr Tyr Leu Ser Thr Ser Lys Thr Thr Thr Ile Leu Gln
 2485 2490 2495
 Pro Thr Asn Val Val Ala Ile Val Thr Glu Ala Thr Gly Val Ser Ala
 2500 2505 2510
 Ile Pro Glu Lys Leu Val Thr Leu His Gly Thr Pro Ala Val Ser Glu
 2515 2520 2525
 Lys Pro Asp Val Ala Thr Val Thr Ala Asn Val Ser Ile His Gly Thr
 2530 2535 2540
 Phe Ser Leu Gly Pro Ser Ile Val Tyr Ile Glu Glu Glu Met Lys Asn
 2545 2550 2555 2560
 Gly Thr Phe Asn Thr Ala Glu Val Leu Ile Arg Arg Thr Gly Gly Phe
 2565 2570 2575
 Thr Gly Asn Val Ser Ile Thr Val Lys Thr Phe Gly Glu Arg Cys Ala
 2580 2585 2590
 Gln Met Glu Pro Asn Ala Leu Pro Phe Arg Gly Ile Tyr Gly Ile Ser
 2595 2600 2605

Asn Leu Thr Trp Ala Val Glu Glu Asp Phe Glu Glu Gln Thr Leu
 2610 2615 2620
 Thr Leu Ile Phe Leu Asp Gly Glu Arg Glu Arg Lys Val Ser Val Gln
 2625 2630 2635 2640
 Ile Leu Asp Asp Asp Glu Pro Glu Gly Gln Glu Phe Phe Tyr Val Phe
 2645 2650 2655
 Leu Thr Asn Pro Gln Gly Gly Ala Gln Ile Val Glu Gly Lys Asp Asp
 2660 2665 2670
 Thr Gly Phe Ala Ala Phe Ala Met Val Ile Ile Thr Gly Ser Asp Leu
 2675 2680 2685
 His Asn Gly Ile Ile Gly Phe Ser Glu Glu Ser Gln Ser Gly Leu Glu
 2690 2695 2700
 Leu Arg Glu Gly Ala Val Met Arg Arg Leu His Leu Ile Val Thr Arg
 2705 2710 2715 2720
 Gln Pro Asn Arg Ala Phe Glu Asp Val Lys Val Phe Trp Arg Val Thr
 2725 2730 2735
 Leu Asn Lys Thr Val Val Val Leu Gln Lys Asp Gly Val Asn Leu Met
 2740 2745 2750
 Glu Glu Leu Gln Ser Val Ser Gly Thr Thr Thr Cys Thr Met Gly Gln
 2755 2760 2765
 Thr Lys Cys Phe Ile Ser Ile Glu Leu Lys Pro Glu Lys Val Pro Gln
 2770 2775 2780
 Val Glu Val Tyr Phe Phe Val Glu Leu Tyr Glu Ala Thr Ala Gly Ala
 2785 2790 2795 2800
 Ala Ile Asn Asn Ser Ala Arg Phe Ala Gln Ile Lys Ile Leu Glu Ser
 2805 2810 2815
 Asp Glu Ser Gln Ser Leu Val Tyr Phe Ser Val Gly Ser Arg Leu Ala
 2820 2825 2830
 Val Ala His Lys Lys Ala Thr Leu Ile Ser Leu Gln Val Ala Arg Asp
 2835 2840 2845
 Ser Gly Thr Gly Leu Met Met Ser Val Asn Phe Ser Thr Gln Glu Leu
 2850 2855 2860
 Arg Ser Ala Glu Thr Ile Gly Arg Thr Ile Ile Ser Pro Ala Ile Ser
 2865 2870 2875 2880
 Gly Lys Asp Phe Val Ile Thr Glu Gly Thr Leu Val Phe Glu Pro Gly
 2885 2890 2895
 Gln Arg Ser Thr Val Leu Asp Val Ile Leu Thr Pro Glu Thr Gly Ser
 2900 2905 2910
 Leu Asn Ser Phe Pro Lys Arg Phe Gln Ile Val Leu Phe Asp Pro Lys
 2915 2920 2925
 Gly Gly Ala Arg Ile Asp Lys Val Tyr Gly Thr Ala Asn Ile Thr Leu
 2930 2935 2940
 Val Ser Asp Ala Asp Ser Gln Ala Ile Trp Gly Leu Ala Asp Gln Leu
 2945 2950 2955 2960
 His Gln Pro Val Asn Asp Asp Ile Leu Asn Arg Val Leu His Thr Ile
 2965 2970 2975
 Ser Met Lys Val Ala Thr Glu Asn Thr Asp Glu Gln Leu Ser Ala Met
 2980 2985 2990
 Met His Leu Ile Glu Lys Ile Thr Thr Glu Gly Lys Ile Gln Ala Phe
 2995 3000 3005
 Ser Val Ala Ser Arg Thr Leu Phe Tyr Glu Ile Leu Cys Ser Leu Ile
 3010 3015 3020
 Asn Pro Lys Arg Lys Asp Thr Arg Gly Phe Ser His Phe Ala Glu Leu
 3025 3030 3035 3040
 Thr Glu Asn Phe Ala Phe Ser Leu Leu Thr Asn Val Thr Cys Gly Ser
 3045 3050 3055
 Pro Gly Glu Lys Ser Lys Thr Ile Leu Asp Ser Cys Pro Tyr Leu Ser
 3060 3065 3070
 Ile Leu Ala Leu His Trp Tyr Pro Gln Gln Ile Asn Gly His Lys Phe
 3075 3080 3085
 Glu Gly Lys Glu Gly Asp Tyr Ile Arg Ile Pro Glu Arg Leu Leu Asp
 3090 3095 3100
 Val Gln Asp Ala Glu Ile Met Ala Gly Lys Ser Thr Cys Lys Leu Val
 3105 3110 3115 3120

```
<210> 1102
<211> 945
<212> Amino acid
<213> Homo sapiens
```

```
<220>
<221> misc_feature
<222> (1)...(945)
<223> X = any amino acid or stop code
```

<400> 1102

Ala	Ala	Gly	Ala	Thr	Met	Glu	Arg	Asp	Gly	Cys	Ala	Gly	Gly	Gly	Ser
1				5					10					15	
Arg	Gly	Gly	Glu	Gly	Gly	Arg	Ala	Pro	Arg	Glu	Gly	Pro	Ala	Gly	Asn
			20					25					30		
Gly	Arg	Asp	Arg	Gly	Arg	Ser	His	Ala	Ala	Glu	Ala	Pro	Gly	Asp	Pro
		35					40					45			
Gln	Ala	Ala	Ala	Ser	Leu	Leu	Ala	Pro	Met	Asp	Val	Gly	Glu	Glu	Pro
		50				55				60					
Leu	Glu	Lys	Ala	Ala	Arg	Ala	Arg	Thr	Ala	Lys	Asp	Pro	Asn	Thr	Tyr
		65			70					75				80	
Lys	Val	Leu	Ser	Leu	Val	Leu	Ser	Val	Cys	Val	Leu	Thr	Thr	Ile	Leu
			85					90						95	
Gly	Cys	Ile	Phe	Gly	Leu	Lys	Pro	Ser	Cys	Ala	Lys	Glu	Val	Lys	Ser
			100				105						110		
Cys	Lys	Gly	Arg	Cys	Phe	Glu	Arg	Thr	Phe	Gly	Asn	Cys	Arg	Cys	Asp
		115					120					125			
Ala	Ala	Cys	Val	Glu	Leu	Gly	Asn	Cys	Cys	Leu	Gly	Leu	Pro	Gly	Gly
		130				135						140			
Thr	Cys	Ile	Glu	Pro	Glu	His	Ile	Trp	Thr	Cys	Asn	Lys	Phe	Arg	Cys
		145				150				155				160	
Gly	Glu	Lys	Arg	Leu	Thr	Arg	Ser	Leu	Cys	Ala	Cys	Ser	Asp	Asp	Cys
				165				170						175	
Lys	Asp	Arg	Gly	Asp	Cys	Leu	Pro	Ser	Asn	Leu	Gln	Phe	Leu	Cys	Val
			180					185					190		
Gln	Gly	Glu	Lys	Ser	Trp	Gly	Arg	Lys	Asn	Pro	Cys	Glu	Ser	His	Leu
		195					200					205			
Met	Glu	Pro	Gln	Cys	Pro	Ala	Gly	Phe	Glu	Thr	Pro	Ser	Leu	Pro	Leu
		210				215						220			
Leu	Ile	Phe	Ser	Leu	Asp	Gly	Phe	Arg	Ala	Glu	Tyr	Leu	His	Thr	Trp
		225			230					235				240	
Gly	Gly	Leu	Leu	Pro	Val	Ile	Ser	Lys	Leu	Lys	Lys	Cys	Gly	Thr	Tyr
				245					250					255	
Thr	Lys	Asn	Met	Arg	Pro	Val	Tyr	Pro	Thr	Lys	Thr	Phe	Pro	Asn	His
			260					265					270		
Tyr	Ser	Ile	Val	Thr	Gly	Leu	Tyr	Pro	Glu	Ser	His	Gly	Ile	Ile	Asn
		275					280					285			
Asn	Lys	Met	Tyr	Asp	Pro	Lys	Met	Asn	Ala	Ser	Phe	Ser	Leu	Lys	Ser
		290				295					300				
Lys	Glu	Lys	Phe	Asn	Pro	Glu	Trp	Tyr	Lys	Gly	Glu	Pro	Ile	Trp	Val
		305			310					315				320	
Thr	Ala	Lys	Tyr	Gln	Gly	Leu	Lys	Ser	Gly	Thr	Phe	Phe	Trp	Pro	Gly
				325					330					335	
Ser	Asp	Val	Glu	Ile	Asn	Gly	Ile	Phe	Pro	Asp	Ile	Tyr	Lys	Met	Tyr
			340					345					350		
Asn	Gly	Ser	Val	Pro	Phe	Glu	Glu	Arg	Ile	Leu	Ala	Val	Leu	Gln	Trp
		355					360					365			
Leu	Gln	Leu	Pro	Lys	Asp	Glu	Arg	Pro	His	Phe	Tyr	Thr	Leu	Tyr	Leu
		370				375					380				
Glu	Glu	Pro	Asp	Ser	Ser	Gly	His	Ser	Tyr	Gly	Pro	Val	Ser	Ser	Glu
		385			390					395				400	
Val	Ile	Lys	Ala	Leu	Gln	Arg	Val	Asp	Gly	Met	Val	Gly	Met	Leu	Met
				405					410					415	
Asp	Gly	Leu	Lys	Glu	Leu	Asn	Leu	His	Arg	Cys	Leu	Asn	Leu	Ile	Leu
			420					425					430		
Ile	Ser	Asp	His	Gly	Met	Glu	Gln	Gly	Ser	Cys	Lys	Lys	Tyr	Ile	Tyr
		435					440					445			
Leu	Asn	Lys	Tyr	Leu	Gly	Asp	Val	Lys	Asn	Ile	Lys	Val	Ile	Tyr	Gly
		450				455					460				
Pro	Ala	Ala	Arg	Leu	Arg	Pro	Ser	Asp	Val	Pro	Asp	Lys	Tyr	Tyr	Ser

465 470 475 480
 Phe Asn Tyr Glu Gly Ile Ala Arg Asn Leu Ser Cys Arg Glu Pro Asn
 485 490 495
 Gln His Phe Lys Pro Tyr Leu Lys His Phe Leu Pro Lys Arg Leu His
 500 505 510
 Phe Ala Lys Ser Asp Arg Ile Glu Pro Leu Thr Phe Tyr Leu Asp Pro
 515 520 525
 Gln Trp Gln Leu Ala Leu Asn Pro Ser Glu Arg Lys Tyr Cys Gly Ser
 530 535 540
 Gly Phe His Gly Ser Asp Asn Val Phe Ser Asn Met Gln Ala Leu Phe
 545 550 555 560
 Val Gly Tyr Gly Pro Gly Phe Lys His Gly Ile Glu Ala Asp Thr Phe
 565 570 575
 Glu Asn Ile Glu Val Tyr Asn Leu Met Cys Asp Leu Leu Asn Leu Thr
 580 585 590
 Pro Ala Pro Asn Asn Gly Thr His Gly Ser Leu Asn His Leu Leu Lys
 595 600 605
 Asn Pro Val Tyr Thr Pro Lys His Pro Lys Glu Val His Pro Leu Val
 610 615 620
 Gln Cys Pro Phe Thr Arg Asn Pro Arg Asp Asn Leu Gly Cys Ser Cys
 625 630 635 640
 Asn Pro Ser Ile Leu Pro Ile Glu Asp Phe Gln Thr Gln Phe Asn Leu
 645 650 655
 Thr Val Ala Glu Lys Ile Ile Lys His Glu Thr Leu Pro Tyr Gly
 660 665 670
 Arg Pro Arg Val Leu Gln Lys Glu Asn Thr Ile Cys Leu Leu Ser Gln
 675 680 685
 His Gln Phe Met Ser Gly Tyr Ser Gln Asp Ile Leu Met Pro Leu Trp
 690 695 700
 Thr Ser Tyr Thr Val Asp Arg Asn Asp Ser Phe Ser Thr Glu Asp Phe
 705 710 715 720
 Ser Asn Cys Leu Tyr Gln Asp Phe Arg Ile Pro Leu Ser Pro Val His
 725 730 735
 Lys Cys Ser Phe Tyr Lys Asn Asn Thr Lys Val Ser Tyr Gly Phe Leu
 740 745 750
 Ser Pro Pro Gln Leu Asn Lys Asn Ser Ser Gly Ile Tyr Ser Glu Ala
 755 760 765
 Leu Leu Thr Thr Asn Ile Val Pro Met Tyr Gln Ser Phe Gln Val Ile
 770 775 780
 Trp Arg Tyr Phe His Asp Thr Leu Leu Arg Lys Tyr Ala Glu Glu Arg
 785 790 795 800
 Asn Gly Val Asn Val Val Ser Gly Pro Val Phe Asp Phe Asp Tyr Asp
 805 810 815
 Gly Arg Cys Asp Ser Leu Glu Asn Leu Arg Gln Lys Arg Arg Val His
 820 825 830
 Pro Val Thr Gln Glu Asn Phe Trp Ile Pro Asn Ser Thr Ser Phe Tyr
 835 840 845
 Val Val Leu Thr Ser Cys Lys Asp Thr Ser Gln Thr Pro Leu His Cys
 850 855 860
 Glu Asn Leu Asp Thr Leu Gly Phe Pro Phe Cys Leu His Arg Asp Trp
 865 870 875 880
 Ile Asn Ser Glu Thr Cys Val His Gly Lys His Asp Ser Ser Trp Val
 885 890 895
 Glu Glu Phe Val Lys Cys Leu His Arg Ala Arg Ile Thr Gly Cys Xaa
 900 905 910
 Gly Thr Ser Leu Gly Leu Ser Phe Tyr Gln Gln Arg Lys Glu Pro Val
 915 920 925
 Ser Asp Ile Leu Lys Leu Lys Thr His Leu Pro Thr Phe Ser Gln Glu
 930 935 940
 Asp
 945

<211> 217
 <212>Amino acid
 <213> Homo sapiens

<400> 1103
 Thr Val Pro Pro Pro Pro Gly Gly Pro Ser Pro Ala Pro Leu His Pro
 1 5 10 15
 Lys Arg Ser Pro Thr Ser Thr Gly Glu Ala Glu Leu Lys Glu Glu Arg
 20 25 30
 Leu Pro Gly Arg Lys Ala Ser Cys Ser Thr Ala Gly Ser Gly Ser Arg
 35 40 45
 Gly Leu Pro Pro Leu Ser Pro Met Val Ser Ser Ala His Asn Pro Asn
 50 55 60
 Lys Ala Glu Ile Pro Glu Arg Arg Lys Asp Ser Thr Ser Thr Pro Asn
 65 70 75 80
 Asn Leu Pro Pro Ser Met Met Thr Arg Arg Asn Thr Tyr Val Cys Thr
 85 90 95
 Glu Arg Pro Gly Ala Glu Arg Pro Ser Leu Leu Pro Asn Gly Lys Glu
 100 105 110
 Asn Ser Ser Gly Thr Pro Arg Val Pro Pro Ala Ser Pro Ser Ser His
 115 120 125
 Ser Leu Ala Pro Pro Ser Gly Glu Arg Ser Arg Leu Ala Arg Gly Ser
 130 135 140
 Thr Ile Arg Ser Thr Phe His Gly Gly Gln Val Arg Asp Arg Arg Ala
 145 150 155 160
 Gly Gly Trp Gly Trp Phe Phe Asn Lys His Ala Leu Gln Arg Ala Pro
 165 170 175
 Arg Asn Ala Gly Ala Pro Ser Leu Met Pro Gly His Arg Thr Val Leu
 180 185 190
 Ile Asn Tyr Gly Gly Gly Gln Asp Leu Lys Asn Trp Glu Thr Cys Leu
 195 200 205
 Ala Ala Pro Pro Asn Lys His Arg Arg
 210 215 217

<210> 1104
 <211> 436
 <212>Amino acid
 <213> Homo sapiens

<400> 1104
 His Thr Leu His His Ser Ser Pro Thr Ser Glu Ala Glu Glu Phe Val
 1 5 10 15
 Ser Arg Leu Ser Thr Gln Asn Tyr Phe Arg Ser Leu Pro Arg Gly Thr
 20 25 30
 Ser Asn Met Thr Tyr Gly Thr Phe Asn Phe Leu Gly Gly Arg Leu Met
 35 40 45
 Ile Pro Asn Thr Gly Ile Ser Leu Leu Ile Pro Pro Asp Ala Ile Pro
 50 55 60
 Arg Gly Lys Ile Tyr Glu Ile Tyr Leu Thr Leu His Lys Pro Glu Asp
 65 70 75 80
 Val Arg Leu Pro Leu Ala Gly Cys Gln Thr Leu Leu Ser Pro Ile Val
 85 90 95
 Ser Cys Gly Pro Pro Gly Val Leu Leu Thr Arg Pro Val Ile Leu Gly
 100 105 110
 Met Asp His Cys Gly Glu Pro Ser Pro Asp Ser Trp Ser Leu Arg Leu

```

      115      120      125
Lys Lys Gln Ser Cys Glu Gly Ser Trp Glu Asp Val Leu His Leu Gly
      130      135      140
Glu Glu Ala Pro Ser His Leu Tyr Tyr Cys Gln Leu Glu Ala Ser Ala
145      150      155      160
Cys Tyr Val Phe Thr Glu Gln Leu Ser Arg Tyr Ala Leu Val Gly Glu
      165      170      175
Ala Leu Ser Val Ala Ala Ala Lys Arg Leu Lys Leu Leu Leu Phe Ala
      180      185      190
Pro Val Ala Cys Thr Ser Leu Glu Tyr Asn Ile Leu Val Tyr Cys Leu
      195      200      205
His Asp Thr His Asp Ala Leu Asn Val Val Val Gln Leu Glu Lys Gln
      210      215      220
Leu Gln Gly Gln Leu Ile Gln Glu Pro Leu Val Leu His Phe Lys Asp
225      230      235      240
Ser Tyr His Asn Leu Arg Leu Ser Ile His Asp Val Pro Ser Ser Leu
      245      250      255
Trp Lys Ser Lys Leu Leu Val Ser Tyr Gln Glu Ile Pro Phe Tyr His
      260      265      270
Ile Trp Asn Gly Thr Gln Arg Tyr Leu His Cys Thr Phe Thr Leu Glu
      275      280      285
Arg Val Ser Pro Ser Thr Ser Asp Leu Ala Cys Lys Leu Trp Val Trp
      290      295      300
Gln Val Glu Gly Asp Gly Gln Ser Phe Ser Ile Asn Phe Asn Ile Thr
305      310      315      320
Lys Asp Thr Arg Phe Ala Glu Leu Leu Ala Leu Glu Ser Glu Ala Gly
      325      330      335
Val Pro Ala Leu Val Gly Pro Ser Ala Phe Lys Ile Pro Phe Leu Ile
      340      345      350
Arg Gln Lys Ile Ile Ser Ser Leu Asp Pro Pro Cys Arg Arg Gly Ala
      355      360      365
Asp Trp Arg Thr Leu Ala Gln Lys Leu His Leu Asp Ser His Leu Ser
      370      375      380
Phe Phe Ala Ser Lys Pro Ser Pro Thr Ala Met Ile Leu Asn Leu Trp
385      390      395      400
Glu Ala Arg His Phe Pro Asn Gly Asn Leu Ser Gln Leu Ala Ala Ala
      405      410      415
Val Ala Gly Thr Gly Pro Ala Gly Arg Trp Leu Leu Ser Gln Cys Ser
      420      425      430
Glu Ala Glu Cys
      435 436

```

<210> 1105

<211> 113

<212> Amino acid

<213> Homo sapiens

<400> 1105

```

      1      5      10      15
Gly Ser Ala Ala Gly Gln Val Gln Gln Gln Gln Arg Arg His Gln
1      5      10      15
Gln Gly Lys Val Thr Val Lys Tyr Asp Arg Lys Glu Leu Arg Lys Arg
      20      25      30
Leu Val Leu Glu Glu Trp Ile Val Glu Gln Leu Gly Gln Leu Tyr Gly
      35      40      45
Cys Glu Glu Glu Glu Met Pro Glu Val Glu Ile Asp Ile Asp Asp Leu
      50      55      60
Phe Asp Ala Tyr Ser Asp Glu Gln Arg Ala Ser Lys Leu Gln Glu Ala
      65      70      75      80
Leu Val Asp Cys Tyr Lys Pro Thr Glu Glu Phe Ile Lys Glu Leu Leu

```

85 90 95
 Ser Arg Ile Arg Gly Met Arg Lys Leu Ser Pro Pro Gln Lys Lys Ser
 100 105 110
 Val
 113

<210> 1106
 <211> 464
 <212> Amino acid
 <213> Homo sapiens

<400> 1106
 Ile Met Leu Asp Gly Arg Val Arg Trp Leu Thr Pro Val Ile Ser Ala
 1 5 10 15
 Leu Trp Glu Ala Glu Met Glu Asp Val Ile Ala Arg Met Gln Asp Glu
 20 25 30
 Lys Asn Gly Ile Pro Ile Arg Thr Val Lys Ser Phe Leu Ser Lys Ile
 35 40 45
 Pro Ser Val Phe Ser Gly Ser Asp Ile Val Gln Trp Leu Ile Lys Asn
 50 55 60
 Leu Thr Ile Glu Asp Pro Val Glu Ala Leu His Leu Gly Thr Leu Met
 65 70 75 80
 Ala Ala His Gly Tyr Phe Phe Pro Ile Ser Asp His Val Leu Thr Leu
 85 90 95
 Lys Asp Asp Gly Thr Phe Tyr Arg Phe Gln Thr Pro Tyr Phe Trp Pro
 100 105 110
 Ser Asn Cys Trp Glu Pro Glu Asn Thr Asp Tyr Ala Val Tyr Leu Cys
 115 120 125
 Lys Arg Thr Met Gln Asn Lys Ala Arg Leu Glu Leu Ala Asp Tyr Glu
 130 135 140
 Ala Glu Ser Leu Ala Arg Leu Gln Arg Ala Phe Ala Arg Lys Trp Glu
 145 150 155 160
 Phe Ile Phe Met Gln Ala Glu Ala Gln Ala Lys Val Asp Lys Lys Arg
 165 170 175
 Asp Lys Ile Glu Arg Lys Ile Leu Asp Ser Gln Glu Arg Ala Phe Trp
 180 185 190
 Asp Val His Arg Pro Val Pro Gly Cys Val Asn Thr Thr Glu Val Asp
 195 200 205
 Ile Lys Lys Ser Ser Arg Met Arg Asn Pro His Lys Thr Arg Lys Ser
 210 215 220
 Val Tyr Gly Leu Gln Asn Asp Ile Arg Ser His Ser Pro Thr His Thr
 225 230 235 240
 Pro Thr Pro Glu Thr Lys Pro Pro Thr Glu Asp Glu Leu Gln Gln Gln
 245 250 255
 Ile Lys Tyr Trp Gln Ile Gln Leu Asp Arg His Arg Leu Lys Met Ser
 260 265 270
 Lys Val Ala Asp Ser Leu Leu Ser Tyr Thr Glu Gln Tyr Leu Glu Tyr
 275 280 285
 Asp Pro Phe Leu Leu Pro Pro Asp Pro Ser Asn Pro Trp Leu Ser Asp
 290 295 300
 Asp Thr Thr Phe Trp Glu Leu Glu Ala Ser Lys Glu Pro Ser Gln Gln
 305 310 315 320
 Arg Val Lys Arg Trp Gly Phe Gly Met Asp Glu Ala Leu Lys Asp Pro
 325 330 335
 Val Gly Arg Glu Gln Phe Leu Lys Phe Leu Glu Ser Glu Phe Ser Ser
 340 345 350
 Glu Asn Leu Arg Phe Trp Leu Ala Val Glu Asp Leu Lys Lys Arg Pro
 355 360 365
 Ile Lys Glu Val Pro Ser Arg Val Gln Glu Ile Trp Gln Glu Phe Leu

```

      370      375      380
Ala Pro Gly Ala Pro Ser Ala Ile Asn Leu Asp Ser Lys Ser Tyr Asp
385      390      395      400
Lys Thr Thr Gln Asn Val Lys Glu Pro Gly Arg Tyr Thr Phe Glu Asp
      405      410      415
Ala Gln Glu His Ile Tyr Lys Leu Met Lys Ser Asp Ser Tyr Pro Arg
      420      425      430
Phe Ile Arg Ser Ser Ala Tyr Gln Glu Leu Leu Gln Ala Lys Lys Lys
      435      440      445
Gly Lys Ser Leu Thr Ser Lys Arg Leu Thr Ser Leu Ala Gln Ser Tyr
      450      455      460      464

```

<210> 1107
 <211> 153
 <212>Amino acid
 <213> Homo sapiens

```

      <400> 1107
Gly Thr Arg Asp Tyr Pro Arg Ile Val Asn His Leu Asp His Thr Tyr
 1      5      10      15
Val Thr Ala Pro Gln Ala Phe Met Met Phe Gln Tyr Phe Val Lys Val
      20      25      30
Val Pro Thr Val Tyr Met Lys Val Asp Gly Glu Val Leu Thr Thr Asn
      35      40      45
Gln Ile Tyr Val Thr Arg His Glu Lys Ala Ala Tyr Val Leu Met Gly
      50      55      60
Asp Gln Gly Leu Pro Gly Val Phe Ile Leu Tyr Glu Leu Ser Pro Met
      65      70      75      80
Met Val Asn Leu Thr Glu Ile His Thr Phe Phe Ser Leu Phe Leu Thr
      85      90      95
Ile Val Gly Ala Thr Ile Gly Gly Met Phe Phe Glu His Phe Val Ile
      100      105      110
Asn Tyr Leu Thr His Lys Trp Gly Leu Gly Phe Tyr Phe Lys Asn Glu
      115      120      125
Asn Ser Leu Gln Gly Gly His Arg Thr Leu Tyr Gly Val Asn Phe Phe
      130      135      140
Met Tyr Trp Ser Leu Arg Gly Gly Ser
145      150      153

```

<210> 1108
 <211> 506
 <212>Amino acid
 <213> Homo sapiens

```

      <400> 1108
Ser Val Trp Trp Asn Ser Gln Arg Gln Phe Val Val Arg Ala Trp Gly
 1      5      10      15
Cys Ala Gly Pro Cys Gly Arg Ala Val Phe Leu Ala Phe Gly Leu Gly
      20      25      30
Leu Gly Leu Ile Glu Glu Lys Gln Ala Glu Ser Arg Arg Ala Val Ser
      35      40      45
Ala Cys Gln Glu Ile Gln Ala Ile Phe Thr Gln Lys Ser Lys Pro Gly

```

50	55	60
Pro Asp Pro Leu Asp Thr Arg Arg Leu Gln Gly Phe Arg Leu Glu Glu		
65	70	75
Tyr Leu Ile Gly Gln Ser Ile Gly Lys Gly Cys Ser Ala Ala Val Tyr		80
	85	90
Glu Ala Thr Met Pro Thr Leu Pro Gln Asn Leu Glu Val Thr Lys Ser		95
	100	105
Thr Gly Leu Leu Pro Gly Arg Gly Pro Gly Thr Ser Ala Pro Gly Glu		110
	115	120
Gly Gln Glu Arg Ala Pro Gly Ala Pro Ala Phe Pro Leu Ala Ile Lys		125
	130	135
Met Met Trp Asn Ile Ser Ala Gly Ser Ser Ser Glu Ala Ile Leu Asn		140
145	150	155
Thr Met Ser Gln Glu Leu Val Pro Ala Ser Arg Val Ala Leu Ala Gly		160
	165	170
Glu Tyr Gly Ala Val Thr Tyr Arg Lys Ser Lys Arg Gly Pro Lys Gln		175
	180	185
Leu Ala Pro His Pro Asn Ile Ile Arg Val Leu Arg Ala Phe Thr Ser		190
	195	200
Ser Val Pro Leu Leu Pro Gly Ala Leu Val Asp Tyr Pro Asp Val Leu		205
210	215	220
Pro Ser Arg Leu His Pro Glu Gly Leu Gly His Gly Arg Thr Leu Phe		225
	230	235
Leu Val Met Lys Asn Tyr Pro Cys Thr Leu Arg Gln Tyr Leu Cys Val		240
	245	250
Asn Thr Pro Ser Pro Arg Leu Ala Ala Met Met Leu Leu Gln Leu Leu		255
	260	265
Glu Gly Val Asp His Leu Val Gln Gln Gly Ile Ala His Arg Asp Leu		270
	275	280
Lys Ser Asp Asn Ile Leu Val Glu Leu Asp Pro Asp Gly Cys Pro Trp		285
290	295	300
Leu Val Ile Ala Asp Phe Gly Cys Cys Leu Ala Asp Glu Ser Ile Gly		305
	310	315
Leu Gln Leu Pro Phe Ser Ser Trp Tyr Val Asp Arg Gly Gly Asn Gly		320
	325	330
Cys Leu Met Ala Pro Glu Val Ser Thr Ala Arg Pro Gly Pro Arg Ala		335
	340	345
Val Ile Asp Tyr Ser Lys Ala Asp Ala Trp Ala Val Gly Ala Ile Ala		350
	355	360
Tyr Glu Ile Phe Gly Leu Val Asn Pro Phe Tyr Gly Gln Gly Lys Ala		365
	370	375
His Leu Glu Ser Arg Ser Tyr Gln Glu Ala Gln Leu Pro Ala Leu Pro		380
385	390	395
Glu Ser Val Pro Pro Asp Val Arg Gln Leu Val Arg Ala Leu Leu Gln		400
	405	410
Arg Glu Ala Ser Lys Arg Pro Ser Ala Arg Val Ala Ala Asn Val Leu		415
	420	425
His Leu Ser Leu Trp Gly Glu His Ile Leu Ala Leu Lys Asn Leu Lys		430
	435	440
Leu Asp Lys Met Val Gly Trp Leu Leu Gln Gln Ser Ala Ala Thr Leu		445
	450	455
Leu Ala Asn Arg Leu Thr Glu Lys Cys Cys Val Glu Thr Lys Met Lys		460
465	470	475
Met Leu Phe Leu Ala Asn Leu Glu Cys Glu Thr Leu Cys Gln Ala Ala		480
	485	490
Leu Leu Leu Cys Ser Trp Arg Ala Ala Leu		495
	500	505
		506

<210> 1109

<211> 382

<212> Amino acid

<213> Homo sapiens

<400> 1109
 Arg Pro Leu Leu Arg Leu Ala Glu Leu Pro Asp His Cys Tyr Arg Met
 1 5 10 15
 Asn Ser Ser Pro Ala Gly Thr Pro Ser Pro Gln Pro Ser Arg Ala Asn
 20 25 30
 Gly Asn Ile Asn Leu Gly Pro Ser Ala Asn Pro Asn Ala Gln Pro Thr
 35 40 45
 Asp Phe Asp Phe Leu Lys Val Ile Gly Lys Gly Asn Tyr Gly Lys Val
 50 55 60
 Leu Leu Ala Lys Arg Lys Ser Asp Gly Ala Phe Tyr Ala Val Lys Val
 65 70 75 80
 Leu Gln Lys Lys Ser Ile Leu Lys Lys Lys Glu Gln Ser His Ile Met
 85 90 95
 Ala Glu Arg Ser Val Leu Leu Lys Asn Val Arg His Pro Phe Leu Val
 100 105 110
 Gly Leu Arg Tyr Ser Phe Gln Thr Pro Glu Lys Leu Tyr Phe Val Leu
 115 120 125
 Asp Tyr Val Asn Gly Gly Glu Leu Phe Phe His Leu Gln Arg Glu Arg
 130 135 140
 Arg Phe Leu Glu Pro Arg Ala Arg Phe Tyr Ala Ala Glu Val Ala Ser
 145 150 155 160
 Ala Ile Gly Tyr Leu His Ser Leu Asn Ile Ile Tyr Arg Asp Leu Lys
 165 170 175
 Pro Glu Asn Ile Leu Leu Asp Cys Gln Gly His Val Val Leu Thr Asp
 180 185 190
 Phe Gly Leu Cys Lys Glu Gly Val Glu Pro Glu Asp Thr Thr Ser Thr
 195 200 205
 Phe Cys Gly Thr Pro Glu Tyr Leu Ala Pro Glu Val Leu Arg Lys Glu
 210 215 220
 Pro Tyr Asp Arg Ala Val Asp Trp Trp Cys Leu Gly Ala Val Leu Tyr
 225 230 235 240
 Glu Met Leu His Gly Leu Pro Pro Phe Tyr Ser Gln Asp Val Ser Gln
 245 250 255
 Met Tyr Glu Asn Ile Leu His Gln Pro Leu Gln Ile Pro Gly Gly Arg
 260 265 270
 Thr Val Ala Ala Cys Asp Leu Leu Gln Ser Leu Leu His Lys Asp Gln
 275 280 285
 Arg Gln Arg Leu Gly Ser Lys Ala Asp Phe Leu Glu Ile Lys Asn His
 290 295 300
 Val Phe Phe Ser Pro Ile Asn Trp Asp Asp Leu Tyr His Lys Arg Leu
 305 310 315 320
 Thr Pro Pro Phe Asn Pro Asn Val Thr Gly Pro Ala Asp Leu Lys His
 325 330 335
 Phe Asp Pro Glu Phe Thr Gln Glu Ala Val Ser Lys Ser Ile Gly Cys
 340 345 350
 Thr Pro Asp Thr Val Ala Ser Ser Ser Gly Ala Ser Ser Ala Phe Leu
 355 360 365
 Gly Phe Ser Tyr Ala Pro Glu Asp Asp Asp Ile Leu Asp Cys
 370 375 380 382

<210> 1110

<211> 535

<212> Amino acid

<213> Homo sapiens

<400> 1110

Arg	Pro	Gln	Thr	Leu	Lys	Gly	His	Gln	Glu	Lys	Ile	Arg	Gln	Arg	Gln
1				5					10					15	
Ser	Ile	Leu	Pro	Pro	Pro	Gln	Gly	Pro	Ala	Pro	Ile	Pro	Phe	Gln	His
			20					25					30		
Arg	Gly	Gly	Asp	Ser	Pro	Glu	Ala	Lys	Asn	Arg	Val	Gly	Pro	Gln	Val
	35						40					45			
Pro	Leu	Ser	Glu	Pro	Gly	Phe	Arg	Arg	Arg	Glu	Ser	Gln	Glu	Glu	Pro
	50					55					60				
Arg	Ala	Val	Leu	Ala	Gln	Lys	Ile	Glu	Lys	Glu	Thr	Gln	Ile	Leu	Asn
	65				70					75					80
Cys	Ala	Leu	Asp	Asp	Ile	Glu	Trp	Phe	Val	Ala	Arg	Leu	Gln	Lys	Ala
				85					90					95	
Ala	Glu	Ala	Phe	Lys	Gln	Leu	Asn	Gln	Arg	Lys	Lys	Gly	Lys	Lys	Lys
			100					105					110		
Gly	Lys	Lys	Ala	Pro	Ala	Glu	Gly	Val	Leu	Thr	Leu	Arg	Ala	Arg	Pro
	115					120						125			
Pro	Ser	Glu	Gly	Glu	Phe	Ile	Asp	Cys	Phe	Gln	Lys	Ile	Lys	Leu	Ala
	130					135					140				
Ile	Asn	Leu	Leu	Ala	Lys	Leu	Gln	Lys	His	Ile	Gln	Asn	Pro	Ser	Ala
	145				150					155					160
Ala	Glu	Leu	Val	His	Phe	Leu	Phe	Gly	Pro	Leu	Asp	Leu	Ile	Val	Asn
			165						170					175	
Thr	Cys	Ser	Gly	Pro	Asp	Ile	Ala	Arg	Ser	Val	Ser	Cys	Pro	Leu	Leu
			180					185					190		
Ser	Arg	Asp	Ala	Val	Asp	Phe	Leu	Arg	Gly	His	Leu	Val	Pro	Lys	Glu
	195						200					205			
Met	Ser	Leu	Trp	Glu	Ser	Leu	Gly	Glu	Ser	Trp	Met	Arg	Pro	Arg	Ser
	210					215					220				
Glu	Trp	Pro	Arg	Glu	Pro	Gln	Val	Pro	Leu	Tyr	Val	Pro	Lys	Phe	His
	225				230					235					240
Ser	Gly	Trp	Glu	Pro	Pro	Val	Asp	Val	Leu	Gln	Glu	Ala	Pro	Trp	Glu
			245					250					255		
Val	Glu	Gly	Leu	Ala	Ser	Ala	Pro	Ile	Glu	Glu	Val	Ser	Pro	Val	Ser
			260					265					270		
Arg	Gln	Ser	Ile	Arg	Asn	Ser	Gln	Lys	His	Ser	Pro	Thr	Ser	Glu	Pro
	275					280						285			
Thr	Pro	Pro	Gly	Asp	Ala	Leu	Pro	Pro	Val	Ser	Ser	Pro	His	Thr	His
	290					295					300				
Arg	Gly	Tyr	Gln	Pro	Thr	Pro	Ala	Met	Ala	Lys	Tyr	Val	Lys	Ile	Leu
	305				310					315					320
Tyr	Asp	Phe	Thr	Ala	Arg	Asn	Ala	Asn	Glu	Leu	Ser	Val	Leu	Lys	Asp
			325					330					335		
Glu	Val	Leu	Glu	Val	Leu	Glu	Asp	Gly	Arg	Gln	Trp	Trp	Lys	Leu	Arg
			340					345					350		
Ser	Arg	Ser	Gly	Gln	Ala	Gly	Tyr	Val	Pro	Cys	Asn	Ile	Leu	Gly	Glu
		355				360					365				
Ala	Arg	Pro	Glu	Asp	Ala	Gly	Ala	Pro	Phe	Glu	Gln	Ala	Gly	Gln	Lys
	370					375					380				
Tyr	Trp	Gly	Pro	Ala	Ser	Pro	Thr	His	Lys	Leu	Pro	Pro	Ser	Phe	Pro
	385				390					395					400
Gly	Asn	Lys	Asp	Glu	Leu	Met	Gln	His	Met	Asp	Glu	Val	Asn	Asp	Glu
			405						410				415		
Leu	Ile	Arg	Lys	Ile	Ser	Asn	Ile	Arg	Ala	Gln	Pro	Gln	Arg	His	Phe
			420					425					430		
Arg	Val	Glu	Arg	Ser	Gln	Pro	Val	Ser	Gln	Pro	Leu	Thr	Tyr	Glu	Ser
		435					440					445			
Gly	Pro	Asp	Glu	Val	Arg	Ala	Trp	Leu	Glu	Ala	Lys	Ala	Phe	Ser	Pro
	450					455					460				
Arg	Ile	Val	Glu	Asn	Leu	Gly	Ile	Leu	Thr	Gly	Pro	Gln	Leu	Phe	Ser
	465				470					475					480
Leu	Asn	Lys	Glu	Glu	Leu	Lys	Lys	Val	Cys	Gly	Glu	Glu	Gly	Val	Arg
			485					490					495		
Val	Tyr	Ser	Gln	Leu	Thr	Met	Gln	Lys	Ala	Phe	Leu	Glu	Lys	Gln	Gln

	500		505		510
Ser Gly Ser	Glu Leu Glu Glu	Leu Met Asn Lys Phe His	Ser Met Asn		
515		520		525	
Gln Arg Arg	Gly Glu Asp Ser				
530		535			

<210> 1111

<211> 346

<212> Amino acid

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(346)

<223> X = any amino acid or stop code

<400> 1111

Ala Trp His	Glu Gly	Leu Val	Ser Ser	Pro Ala	Ile Gly	Ala Tyr	Leu
1	5		10		15		
Ser Ala Ser	Tyr Gly	Asp Ser	Leu Val	Val Leu	Val Ala	Thr Val	Val
20		25		30			
Ala Leu Leu	Asp Ile	Cys Phe	Ile Leu	Val Ala	Val Pro	Glu Ser	Leu
35		40		45			
Pro Glu Lys	Met Arg	Pro Val	Ser Trp	Gly Ala	Gln Ile	Ser Trp	Lys
50		55		60			
Gln Ala Asp	Pro Phe	Ala Ser	Leu Lys	Lys Val	Gly Lys	Asp Ser	Thr
65		70		75		80	
Val Leu Leu	Ile Cys	Ile Thr	Val Cys	Leu Ser	Tyr Leu	Pro Glu	Ala
	85		90		95		
Gly Gln Tyr	Ser Ser	Phe Phe	Leu Tyr	Leu Arg	Gln Val	Ile Gly	Phe
100		105		110			
Gly Ser Val	Lys Ile	Ala Ala	Phe Ile	Ala Met	Val Gly	Ile Leu	Ser
115		120		125			
Ile Val Ala	Gln Thr	Ala Phe	Leu Ser	Ile Leu	Met Arg	Ser Leu	Gly
130		135		140			
Asn Lys Asn	Thr Val	Leu Leu	Gly Leu	Gly Phe	Gln Met	Leu Gln	Leu
145		150		155		160	
Ala Trp Tyr	Gly Phe	Gly Ser	Gln Ala	Trp Met	Met Trp	Ala Ala	Gly
	165		170		175		
Thr Val Ala	Ala Met	Ser Ser	Ile Thr	Phe Pro	Ala Ile	Ser Ala	Leu
180		185		190			
Val Ser Arg	Asn Ala	Glu Ser	Asp Gln	Gln Gly	Val Ala	Gln Gly	Ile
195		200		205			
Ile Thr Gly	Ile Arg	Gly Leu	Cys Asn	Gly Leu	Gly Pro	Ala Leu	Tyr
210		215		220			
Gly Phe Ile	Phe Tyr	Met Phe	His Val	Glu Leu	Thr Glu	Leu Gly	Pro
225		230		235		240	
Lys Leu Asn	Ser Asn	Asn Val	Pro Leu	Gln Gly	Ala Val	Ile Pro	Gly
	245		250		255		
Pro Pro Phe	Leu Phe	Gly Ala	Cys Ile	Val Leu	Met Ser	Phe Leu	Ala
260		265		270			
Ala Leu Phe	Ile Pro	Glu Tyr	Ser Lys	Ala Ser	Gly Val	Gln Lys	His
275		280		285			
Ser Asn Ser	Ser Ser	Gly Ser	Leu Thr	Asn Thr	Pro Glu	Arg Gly	Ser
290		295		300			
Asp Glu Asp	Ile Glu	Pro Leu	Leu Gln	Asp Ser	Ile Trp	Glu Leu	
305		310		315		320	
Ser Ser Phe	Glu Glu	Pro Gly	Asn Gln	Cys Thr	Glu Leu	Xaa Thr	Arg
	325		330		335		

Gln Lys Val Gly Phe Cys Ile Arg His Leu
 340 345 346

<210> 1112
 <211> 647
 <212> Amino acid
 <213> Homo sapiens

<400> 1112
 Met Ala Ala Gly Leu Ala Thr Trp Leu Pro Phe Ala Arg Ala Ala Ala
 1 5 10 15
 Val Gly Trp Leu Pro Leu Ala Gln Gln Pro Leu Pro Pro Ala Pro Gly
 20 25 30
 Val Lys Ala Ser Arg Gly Asp Glu Val Leu Val Val Asn Val Ser Gly
 35 40 45
 Arg Arg Phe Glu Thr Trp Lys Asn Thr Leu Asp Arg Tyr Pro Asp Thr
 50 55 60
 Leu Leu Gly Ser Ser Glu Lys Glu Phe Phe Tyr Asp Ala Asp Ser Gly
 65 70 75 80
 Glu Tyr Phe Phe Asp Arg Asp Pro Asp Met Phe Arg His Val Leu Asn
 85 90 95
 Phe Tyr Arg Thr Gly Arg Leu His Cys Pro Arg Gln Glu Cys Ile Gln
 100 105 110
 Ala Phe Asp Glu Glu Leu Ala Phe Tyr Gly Leu Val Pro Glu Leu Val
 115 120 125
 Gly Asp Cys Cys Leu Glu Glu Tyr Arg Asp Arg Lys Lys Glu Asn Ala
 130 135 140
 Glu Arg Leu Ala Glu Asp Glu Glu Ala Glu Gln Ala Gly Asp Gly Pro
 145 150 155 160
 Ala Leu Pro Ala Gly Ser Ser Leu Arg Gln Arg Leu Trp Arg Ala Phe
 165 170 175
 Glu Asn Pro His Thr Ser Thr Ala Ala Leu Val Phe Tyr Tyr Val Thr
 180 185 190
 Gly Phe Phe Ile Ala Val Ser Val Ile Ala Asn Val Val Glu Thr Ile
 195 200 205
 Pro Cys Arg Gly Ser Ala Arg Arg Ser Ser Arg Glu Gln Pro Cys Gly
 210 215 220
 Glu Arg Phe Pro Gln Ala Phe Phe Cys Met Asp Thr Ala Cys Val Leu
 225 230 235 240
 Ile Phe Thr Gly Glu Tyr Leu Leu Arg Leu Phe Ala Ala Pro Ser Arg
 245 250 255
 Cys Arg Phe Leu Arg Ser Val Met Ser Leu Ile Asp Val Val Ala Ile
 260 265 270
 Leu Pro Tyr Tyr Ile Gly Leu Leu Val Pro Lys Asn Asp Asp Val Ser
 275 280 285
 Gly Ala Phe Val Thr Leu Arg Val Phe Arg Val Phe Arg Ile Phe Lys
 290 295 300
 Phe Ser Arg His Ser Gln Gly Leu Arg Ile Leu Gly Tyr Thr Leu Lys
 305 310 315 320
 Ser Cys Ala Ser Glu Leu Gly Phe Leu Leu Phe Ser Leu Thr Met Ala
 325 330 335
 Ile Ile Ile Phe Ala Thr Val Met Phe Tyr Ala Glu Lys Gly Thr Asn
 340 345 350
 Lys Thr Asn Phe Thr Ser Ile Pro Ala Ala Phe Trp Tyr Thr Ile Val
 355 360 365
 Thr Met Thr Thr Leu Gly Tyr Gly Asp Met Val Pro Ser Thr Ile Ala
 370 375 380
 Gly Lys Ile Phe Gly Ser Ile Cys Ser Leu Ser Gly Val Leu Val Ile
 385 390 395 400

```
<210> 1113
<211> 220
<212>Amino acid
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(220)
<223> X = any amino acid or stop code
```

640

```
<210> 1114
<211> 382
<212> Amino acid
<213> Homo sapiens
```

641

```

305          310          315          320
Gln Lys Val Asp Leu Ala Leu Lys Gln Leu Gly His Ile Arg Glu Tyr
          325          330          335
Glu Gln Arg Leu Lys Val Leu Glu Arg Glu Val Gln Gln Cys Ser Arg
          340          345          350
Val Leu Gly Trp Val Ala Glu Ala Leu Ser Arg Ser Ala Leu Leu Pro
          355          360          365
Pro Gly Gly Pro Pro Pro Pro Asp Leu Pro Gly Ser Lys Asp
          370          375          380          382

```

```

<210> 1115
<211> 109
<212>Amino acid
<213> Homo sapiens

```

```

<400> 1115
Leu Ile Lys Leu Cys Lys Ser Lys Ala Lys Ser Cys Glu Asn Asp Leu
 1          5          10          15
Glu Met Gly Met Leu Asn Ser Lys Phe Lys Lys Thr Arg Tyr Gln Ala
          20          25          30
Gly Met Arg Asn Ser Glu Asn Leu Thr Ala Asn Asn Thr Leu Ser Lys
          35          40          45
Pro Thr Arg Tyr Gln Gly Glu Leu Lys Glu Ile Lys Gln Asp Ile Ser
          50          55          60
Ser Leu Arg Tyr Glu Leu Leu Glu Glu Lys Ser Gln Ala Thr Gly Glu
          65          70          75          80
Leu Ala Asp Leu Ile Gln Gln Leu Ser Glu Lys Phe Gly Lys Asn Leu
          85          90          95
Asn Lys Asp His Leu Arg Val Asn Lys Gly Lys Asp Ile
          100          105          109

```

```

<210> 1116
<211> 679
<212>Amino acid
<213> Homo sapiens

```

```

<400> 1116
Leu Pro Leu Leu His Ala Gly Phe Asn Arg Arg Phe Met Glu Asn Ser
 1          5          10          15
Ser Ile Ile Ala Cys Tyr Asn Glu Leu Ile Gln Ile Glu His Gly Glu
          20          25          30
Val Arg Ser Gln Phe Lys Leu Arg Ala Cys Asn Ser Val Phe Thr Ala
          35          40          45
Leu Asp His Cys His Glu Ala Ile Glu Ile Thr Ser Asp Asp His Val
          50          55          60
Ile Gln Tyr Val Asn Pro Ala Phe Glu Arg Met Met Gly Tyr His Lys
          65          70          75          80
Gly Glu Leu Leu Gly Lys Glu Leu Ala Asp Leu Pro Lys Ser Asp Lys
          85          90          95
Asn Arg Ala Asp Leu Leu Asp Thr Ile Asn Thr Cys Ile Lys Lys Gly
          100          105          110
Lys Glu Trp Gln Gly Val Tyr Tyr Ala Arg Arg Lys Ser Gly Asp Ser
          115          120          125
Ile Gln Gln His Val Lys Ile Thr Pro Val Ile Gly Gln Gly Gly Lys

```

130	135	140			
Ile Arg His Phe Val Ser	Leu Lys Lys Leu Cys	Cys Thr Thr Asp Asn			
145	150	155	160		
Asn Lys Gln Ile His Lys	Ile His Arg Asp Ser	Gly Asp Asn Ser Gln			
	165	170	175		
Thr Glu Pro His Ser Phe	Arg Tyr Lys Asn Arg	Arg Lys Glu Ser Ile			
	180	185	190		
Asp Val Lys Ser Ile Ser	Ser Arg Gly Ser Asp	Ala Pro Ser Leu Gln			
	195	200	205		
Asn Arg Arg Tyr Pro Ser	Met Ala Arg Ile His	Ser Met Thr Ile Glu			
	210	215	220		
Ala Pro Ile Thr Lys Val	Ile Asn Ile Ile Asn	Ala Ala Gln Glu Asn			
225	230	235	240		
Ser Pro Val Thr Val Ala	Glu Ala Leu Asp Arg	Val Leu Glu Ile Leu			
	245	250	255		
Arg Thr Thr Glu Leu Tyr	Ser Pro Gln Leu Gly	Thr Lys Asp Glu Asp			
	260	265	270		
Pro His Thr Ser Asp Leu	Val Gly Gly Leu Met	Thr Asp Gly Leu Arg			
	275	280	285		
Arg Leu Ser Gly Asn Glu	Tyr Val Phe Thr Lys	Asn Val His Gln Ser			
	290	295	300		
His Ser His Leu Ala Met	Pro Ile Thr Ile Asn	Asp Val Pro Pro Cys			
305	310	315	320		
Ile Ser Gln Leu Leu Asp	Asn Glu Glu Ser Trp	Asp Phe Asn Ile Phe			
	325	330	335		
Glu Leu Glu Ala Ile Thr	His Lys Arg Pro Leu	Val Tyr Leu Gly Leu			
	340	345	350		
Lys Val Phe Ser Arg Phe	Gly Val Cys Glu Phe	Leu Asn Cys Ser Glu			
	355	360	365		
Thr Thr Leu Arg Ala Trp	Phe Gln Val Ile Glu	Ala Asn Tyr His Ser			
	370	375	380		
Ser Asn Ala Tyr His Asn	Ser Thr His Ala Ala	Asp Val Leu His Ala			
385	390	395	400		
Thr Ala Phe Phe Leu Gly	Lys Glu Arg Val Lys	Gly Ser Leu Asp Gln			
	405	410	415		
Leu Asp Glu Val Ala Ala	Leu Ile Ala Ala Thr	Val His Asp Val Asp			
	420	425	430		
His Pro Gly Arg Thr Asn	Ser Phe Leu Cys Asn	Ala Gly Ser Glu Leu			
	435	440	445		
Ala Val Leu Tyr Asn Asp	Thr Ala Val Leu Glu	Ser His His Thr Ala			
	450	455	460		
Leu Ala Phe Gln Leu Thr	Val Lys Asp Thr Lys	Cys Asn Ile Phe Lys			
465	470	475	480		
Asn Ile Asp Arg Gly Asn	His Tyr Arg Thr Leu	Arg Gln Ala Ile Ile			
	485	490	495		
Asp Met Val Leu Ala Thr	Glu Met Thr Lys His	Phe Glu His Val Asn			
	500	505	510		
Lys Phe Val Asn Ser Ile	Asn Lys Pro Met Ala	Ala Glu Ile Glu Gly			
	515	520	525		
Ser Asp Cys Glu Cys Asn	Pro Ala Gly Lys Asn	Phe Pro Glu Asn Gln			
	530	535	540		
Ile Leu Ile Lys Arg Met	Met Ile Lys Cys Ala	Asp Val Ala Asn Pro			
545	550	555	560		
Cys Arg Pro Leu Asp Leu	Cys Ile Glu Trp Ala	Gly Arg Ile Ser Glu			
	565	570	575		
Glu Tyr Phe Ala Gln Thr	Asp Glu Glu Lys Arg	Gln Gly Leu Pro Val			
	580	585	590		
Val Met Pro Val Phe Asp	Arg Asn Thr Cys Ser	Ile Pro Lys Ser Gln			
	595	600	605		
Ile Ser Phe Ile Asp Tyr	Phe Ile Thr Asp Met	Phe Asp Ala Trp Asp			
	610	615	620		
Ala Phe Ala His Leu Pro	Ala Leu Met Gln His	Leu Ala Asp Asn Tyr			
625	630	635	640		
Lys His Trp Lys Thr Leu	Asp Asp Leu Lys Cys	Lys Ser Leu Arg Leu			

645
 Pro Ser Asp Arg Leu Lys Pro Ser His Arg Gly Gly Leu Leu Thr Asp
 660
 Lys Gly His Cys Glu Ser Gln
 675 679

<210> 1117
 <211> 1193
 <212> Amino acid
 <213> Homo sapiens

<400> 1117
 Ala Phe Leu Ser Lys Val Glu Glu Asp Asp Tyr Pro Ser Glu Glu Leu
 1 5 10 15
 Leu Glu Asp Glu Asn Ala Ile Asn Ala Lys Arg Ser Lys Glu Lys Asn
 20 25 30
 Pro Gly Asn Gln Gly Arg Gln Phe Asp Val Asn Leu Gln Val Pro Asp
 35 40 45
 Arg Ala Val Leu Gly Thr Ile His Pro Asp Pro Glu Ile Glu Glu Ser
 50 55 60
 Lys Gln Glu Thr Ser Met Ile Leu Asp Ser Glu Lys Thr Ser Glu Thr
 65 70 75 80
 Ala Ala Lys Gly Val Asn Thr Gly Gly Arg Glu Pro Asn Thr Met Val
 85 90 95
 Glu Lys Glu Arg Pro Leu Ala Asp Lys Lys Ala Gln Arg Pro Phe Glu
 100 105 110
 Arg Ser Asp Phe Ser Asp Ser Ile Lys Ile Gln Thr Pro Glu Leu Gly
 115 120 125
 Glu Val Phe Gln Asn Lys Asp Ser Asp Tyr Leu Lys Asn Asp Asn Pro
 130 135 140
 Glu Glu His Leu Lys Thr Ser Gly Leu Ala Gly Glu Pro Glu Gly Glu
 145 150 155 160
 Leu Ser Lys Glu Asp His Glu Asn Thr Glu Lys Tyr Met Gly Thr Glu
 165 170 175
 Ser Gln Gly Ser Ala Ala Ala Glu Pro Glu Asp Asp Ser Phe His Trp
 180 185 190
 Thr Pro His Thr Ser Val Glu Pro Gly His Ser Asp Lys Arg Glu Asp
 195 200 205
 Leu Leu Ile Ile Ser Ser Phe Phe Lys Glu Gln Gln Ser Leu Gln Arg
 210 215 220
 Phe Gln Lys Tyr Phe Asn Val His Glu Leu Glu Ala Leu Leu Gln Glu
 225 230 235 240
 Met Ser Ser Lys Leu Lys Ser Ala Gln Gln Glu Ser Leu Pro Tyr Asn
 245 250 255
 Met Glu Lys Val Leu Asp Lys Val Phe Arg Ala Ser Glu Ser Gln Ile
 260 265 270
 Leu Ser Ile Ala Glu Lys Met Leu Asp Thr Arg Val Ala Glu Asn Arg
 275 280 285
 Asp Leu Gly Met Asn Glu Asn Asn Ile Phe Glu Glu Ala Ala Val Leu
 290 295 300
 Asp Asp Ile Gln Asp Leu Ile Tyr Phe Val Arg Tyr Lys His Ser Thr
 305 310 315 320
 Ala Glu Glu Thr Ala Thr Leu Val Met Ala Pro Pro Leu Glu Glu Gly
 325 330 335
 Leu Gly Gly Ala Met Glu Glu Met Gln Pro Leu His Glu Asp Asn Phe
 340 345 350
 Ser Arg Glu Lys Thr Ala Glu Leu Asn Val Gln Val Pro Glu Glu Pro
 355 360 365
 Thr His Leu Asp Gln Arg Val Ile Gly Asp Thr His Ala Ser Glu Val

370	375	380
Ser Gln Lys Pro Asn Thr Glu Lys Asp Leu Asp Pro Gly Pro Val Thr		
385	390	395
Thr Glu Asp Thr Pro Met Asp Ala Ile Asp Ala Asn Lys Gln Pro Glu		400
	405	410
Thr Ala Ala Glu Glu Pro Ala Ser Val Thr Pro Leu Glu Asn Ala Ile		415
	420	425
Leu Leu Ile Tyr Ser Phe Met Phe Tyr Leu Thr Lys Ser Leu Val Ala		430
	435	440
Thr Leu Pro Asp Asp Val Gln Pro Gly Pro Asp Phe Tyr Gly Leu Pro		445
	450	455
Trp Lys Pro Val Phe Ile Thr Ala Phe Leu Gly Ile Ala Ser Phe Ala		460
465	470	475
Ile Phe Leu Trp Arg Thr Val Leu Val Val Lys Asp Arg Val Tyr Gln		480
	485	490
Val Thr Glu Gln Gln Ile Ser Glu Lys Leu Lys Thr Ile Met Lys Glu		495
	500	505
Asn Thr Glu Leu Val Gln Lys Leu Ser Asn Tyr Glu Gln Lys Ile Lys		510
	515	520
Glu Ser Lys Lys His Val Gln Glu Thr Arg Lys Gln Asn Met Ile Leu		525
	530	535
Ser Asp Glu Ala Ile Lys Tyr Lys Asp Lys Ile Lys Thr Leu Glu Lys		540
545	550	555
Asn Gln Glu Ile Leu Asp Asp Thr Ala Lys Asn Leu Arg Val Met Leu		560
	565	570
Glu Ser Glu Arg Glu Gln Asn Val Lys Asn Gln Asp Leu Ile Ser Glu		575
	580	585
Asn Lys Lys Ser Ile Glu Lys Leu Lys Asp Val Ile Ser Met Asn Ala		590
	595	600
Ser Glu Phe Ser Glu Val Gln Ile Ala Leu Asn Glu Ala Lys Leu Ser		605
610	615	620
Glu Glu Lys Val Lys Ser Glu Cys His Arg Val Gln Glu Glu Asn Ala		625
625	630	635
Arg Leu Lys Lys Lys Lys Glu Gln Leu Gln Gln Glu Ile Glu Asp Trp		640
	645	650
Ser Lys Leu His Ala Glu Leu Ser Glu Gln Ile Lys Ser Phe Glu Lys		655
	660	665
Ser Gln Lys Asp Leu Glu Val Ala Leu Thr His Lys Asp Asp Asn Ile		670
	675	680
Asn Ala Leu Thr Asn Cys Ile Thr Gln Leu Asn Leu Leu Glu Cys Glu		685
	690	695
Ser Glu Ser Glu Gly Gln Asn Lys Gly Gly Asn Asp Ser Asp Glu Leu		700
705	710	715
Ala Asn Gly Glu Val Gly Gly Asp Arg Asn Glu Lys Met Lys Asn Gln		720
	725	730
Ile Lys Gln Met Met Asp Val Ser Arg Thr Gln Thr Ala Ile Ser Val		735
	740	745
Val Glu Glu Asp Leu Lys Leu Leu Gln Leu Lys Leu Arg Ala Ser Val		750
	755	760
Ser Thr Lys Cys Asn Leu Glu Asp Gln Val Lys Lys Leu Glu Asp Asp		765
	770	775
Arg Asn Ser Leu Gln Ala Ala Lys Ala Gly Leu Glu Asp Glu Cys Lys		780
785	790	795
Thr Leu Arg Gln Lys Val Glu Ile Leu Asn Glu Leu Tyr Gln Gln Lys		800
	805	810
Glu Met Ala Leu Gln Lys Lys Leu Ser Gln Glu Glu Tyr Glu Arg Gln		815
	820	825
Glu Arg Glu His Arg Leu Ser Ala Ala Asp Glu Lys Ala Val Ser Ala		830
	835	840
Ala Glu Glu Val Lys Thr Tyr Lys Arg Arg Ile Glu Glu Met Glu Asp		845
	850	855
Glu Leu Gln Lys Thr Glu Arg Ser Phe Lys Asn Gln Ile Ala Thr His		860
865	870	875
Glu Lys Lys Ala His Glu Asn Trp Leu Lys Ala Arg Ala Ala Glu Arg		880

885 890 895
 Ala Ile Ala Glu Glu Lys Arg Glu Ala Ala Asn Leu Arg His Lys Leu
 900 905 910
 Leu Asp Leu Thr Gln Lys Met Ala Met Leu Gln Glu Glu Pro Val Ile
 915 920 925
 Val Lys Pro Met Pro Gly Lys Pro Asn Thr Gln Asn Pro Pro Arg Arg
 930 935 940
 Gly Pro Leu Ser Gln Asn Gly Ser Phe Gly Pro Ser Pro Val Ser Gly
 945 950 955 960
 Gly Glu Cys Ser Pro Pro Leu Thr Val Glu Pro Pro Val Arg Pro Leu
 965 970 975
 Ser Ala Thr Leu Asn Arg Arg Asp Met Pro Arg Ser Glu Phe Gly Ser
 980 985 990
 Leu Asp Gly Pro Leu Pro His Pro Arg Trp Ser Ala Glu Ala Ser Gly
 995 1000 1005
 Lys Pro Ser Pro Ser Asp Pro Gly Ser Gly Thr Ala Thr Met Met Asn
 1010 1015 1020
 Ser Ser Ser Arg Gly Ser Ser Pro Thr Arg Val Leu Asp Glu Gly Lys
 1025 1030 1035 1040
 Val Asn Met Ala Pro Lys Gly Pro Pro Pro Phe Pro Gly Val Pro Leu
 1045 1050 1055
 Met Ser Thr Pro Met Gly Gly Pro Val Pro Pro Pro Ile Arg Tyr Gly
 1060 1065 1070
 Pro Pro Pro Gln Leu Cys Gly Pro Phe Gly Pro Arg Pro Leu Pro Pro
 1075 1080 1085
 Pro Phe Gly Pro Gly Met Arg Pro Pro Leu Gly Leu Arg Glu Phe Ala
 1090 1095 1100
 Pro Gly Val Pro Pro Gly Arg Arg Asp Leu Pro Leu His Pro Arg Gly
 1105 1110 1115 1120
 Phe Leu Pro Gly His Ala Pro Phe Arg Pro Leu Gly Ser Leu Gly Pro
 1125 1130 1135
 Arg Glu Tyr Phe Ile Pro Gly Thr Arg Leu Pro Pro Pro Thr His Gly
 1140 1145 1150
 Pro Gln Glu Tyr Pro Pro Pro Pro Ala Val Arg Asp Leu Leu Pro Ser
 1155 1160 1165
 Gly Ser Arg Asp Glu Pro Pro Pro Ala Ser Gln Ser Thr Ser Gln Asp
 1170 1175 1180
 Cys Ser Gln Ala Leu Lys Gln Ser Pro
 1185 1190 1193

<210> 1118

<211> 981

<212> Amino acid

<213> Homo sapiens

<400> 1118

Met Ala Ala Asp Ser Glu Pro Glu Ser Glu Val Phe Glu Ile Thr Asp
 1 5 10 15
 Phe Thr Thr Ala Ser Glu Trp Glu Arg Phe Ile Ser Lys Val Glu Glu
 20 25 30
 Val Leu Asn Asp Trp Lys Leu Ile Gly Asn Ser Leu Gly Lys Pro Leu
 35 40 45
 Glu Lys Gly Ile Phe Thr Ser Gly Thr Trp Glu Glu Lys Ser Asp Glu
 50 55 60
 Ile Ser Phe Ala Asp Phe Lys Phe Ser Val Thr His His Tyr Leu Val
 65 70 75 80
 Gln Glu Ser Thr Asp Lys Glu Gly Lys Asp Glu Leu Leu Glu Asp Val
 85 90 95
 Val Pro Gln Ser Met Gln Asp Leu Leu Gly Met Asn Asn Asp Phe Pro

100	105	110
Pro Arg Ala His Cys Leu Val	Arg Trp Tyr Gly Leu	Arg Glu Phe Val
115	120	125
Val Ile Ala Pro Ala Ala His	Ser Asp Ala Val Leu	Ser Glu Ser Lys
130	135	140
Cys Asn Leu Leu Leu Ser Ser	Val Ser Ile Ala Leu	Gly Asn Thr Gly
145	150	155
Cys Gln Val Pro Leu Phe Val	Gln Ile His His Lys	Trp Arg Arg Met
165	170	175
Tyr Val Gly Glu Cys Gln Gly	Pro Gly Val Arg Thr	Asp Phe Glu Met
180	185	190
Val His Leu Arg Lys Val Pro	Asn Gln Tyr Thr His	Leu Ser Gly Leu
195	200	205
Leu Asp Ile Phe Lys Ser Lys	Ile Gly Cys Pro Leu	Thr Pro Leu Pro
210	215	220
Pro Val Ser Ile Ala Ile Arg	Phe Thr Tyr Val Leu	Gln Asp Trp Gln
225	230	235
Gln Tyr Phe Trp Pro Gln Gln	Pro Pro Asp Ile Asp	Ala Leu Val Gly
245	250	255
Gly Glu Val Gly Gly Leu Glu	Phe Gly Lys Leu Pro	Phe Gly Ala Cys
260	265	270
Glu Asp Pro Ile Ser Glu Leu	His Leu Ala Thr Thr	Trp Pro His Leu
275	280	285
Thr Glu Gly Ile Ile Val Asp	Asn Asp Val Tyr Ser	Asp Leu Asp Pro
290	295	300
Ile Gln Ala Pro His Trp Ser	Val Arg Val Arg Lys	Ala Glu Asn Pro
305	310	315
Gln Cys Leu Leu Gly Asp Phe	Val Thr Glu Phe Phe	Lys Ile Cys Arg
325	330	335
Arg Lys Glu Ser Thr Asp Glu	Ile Leu Gly Arg Ser	Ala Phe Glu Glu
340	345	350
Glu Gly Lys Glu Thr Ala Asp	Ile Thr His Ala Leu	Ser Lys Leu Thr
355	360	365
Glu Pro Ala Ser Val Pro Ile	His Lys Leu Ser Val	Ser Asn Met Val
370	375	380
His Thr Ala Lys Lys Lys Ile	Arg Lys His Arg Gly	Val Glu Glu Ser
385	390	395
Pro Leu Asn Asn Asp Val Leu	Asn Thr Ile Leu Leu	Phe Leu Phe Pro
405	410	415
Asp Ala Val Ser Glu Lys Pro	Leu Asp Gly Thr Thr	Ser Thr Asp Asn
420	425	430
Asn Asn Pro Pro Ser Glu Ser	Glu Asp Tyr Asn Leu	Tyr Asn Gln Phe
435	440	445
Lys Ser Ala Pro Ser Asp Ser	Leu Thr Tyr Lys Leu	Ala Leu Cys Leu
450	455	460
Cys Met Ile Asn Phe Tyr His	Gly Gly Leu Lys Gly	Val Ala His Leu
465	470	475
Trp Gln Glu Phe Val Leu Glu	Met Arg Phe Arg Trp	Glu Asn Asn Phe
485	490	495
Leu Ile Pro Gly Leu Ala Ser	Gly Pro Pro Asp Leu	Arg Cys Cys Leu
500	505	510
Leu His Gln Lys Leu Gln Met	Leu Asn Cys Cys Ile	Glu Arg Lys Lys
515	520	525
Ala Arg Asp Glu Gly Lys Lys	Thr Ser Ala Ser Asp	Val Thr Asn Ile
530	535	540
Tyr Pro Gly Asp Ala Gly Lys	Ala Gly Asp Gln Leu	Val Pro Asp Asn
545	550	555
Leu Lys Glu Thr Asp Lys Glu	Lys Gly Glu Val Gly	Lys Ser Trp Asp
565	570	575
Ser Trp Ser Asp Ser Glu Glu	Glu Phe Phe Glu Cys	Leu Ser Asp Thr
580	585	590
Glu Glu Leu Lys Gly Asn Gly	Gln Glu Ser Gly Lys	Lys Gly Gly Pro
595	600	605
Lys Glu Met Ala Asn Leu Arg	Pro Glu Gly Arg Leu	Tyr Gln His Gly

610		615		620
Lys Leu Thr Leu Leu His Asn Gly Glu Pro Leu Tyr Ile Pro Val Thr				
625		630		635
Gln Glu Pro Ala Pro Met Thr Glu Asp Leu Leu Glu Glu Gln Ser Glu				
	645		650	655
Val Leu Ala Lys Leu Gly Thr Ser Ala Glu Gly Ala His Leu Arg Ala				
	660		665	670
Arg Met Gln Ser Ala Cys Leu Leu Ser Asp Met Glu Ser Phe Lys Ala				
	675		680	685
Ala Asn Pro Gly Cys Ser Leu Glu Asp Phe Val Arg Trp Tyr Ser Pro				
	690		695	700
Arg Asp Tyr Ile Glu Glu Glu Val Ile Asp Glu Lys Gly Asn Val Val				
705		710		715
Leu Lys Gly Glu Leu Ser Ala Arg Met Lys Ile Pro Ser Asn Met Trp				
	725		730	735
Val Glu Ala Trp Glu Thr Ala Lys Pro Ile Pro Ala Arg Arg Gln Arg				
	740		745	750
Arg Leu Phe Asp Asp Thr Arg Glu Ala Glu Lys Val Leu His Tyr Leu				
	755		760	765
Ala Ile Gln Lys Pro Ala Asp Leu Ala Arg His Leu Leu Pro Cys Val				
	770		775	780
Ile His Ala Ala Val Leu Lys Val Lys Glu Glu Glu Ser Leu Glu Asn				
785		790		795
Ile Ser Ser Val Lys Lys Ile Ile Lys Gln Ile Ile Ser His Ser Ser				
	805		810	815
Lys Val Leu His Phe Pro Asn Pro Glu Asp Lys Lys Leu Glu Glu Ile				
	820		825	830
Ile His Gln Ile Thr Asn Val Glu Ala Leu Ile Ala Arg Ala Arg Ser				
	835		840	845
Leu Lys Ala Lys Phe Gly Thr Glu Lys Cys Glu Gln Glu Glu Glu Lys				
	850		855	860
Glu Asp Leu Glu Arg Phe Val Ser Cys Leu Leu Glu Gln Pro Glu Val				
865		870		875
Leu Val Thr Gly Ala Gly Arg Gly His Ala Gly Arg Ile Ile His Lys				
	885		890	895
Leu Phe Val Asn Ala Gln Arg Ala Ala Ala Met Thr Pro Pro Glu Glu				
	900		905	910
Glu Leu Lys Arg Met Gly Ser Pro Glu Glu Arg Arg Gln Asn Ser Val				
	915		920	925
Ser Asp Phe Pro Pro Pro Ala Gly Arg Glu Phe Ile Leu Arg Thr Thr				
	930		935	940
Val Pro Arg Pro Ala Pro Tyr Ser Lys Ala Leu Pro Gln Arg Met Tyr				
945		950		955
Ser Val Leu Thr Lys Glu Asp Phe Arg Leu Ala Gly Ala Phe Ser Ser				
	965		970	975
Asp Thr Ser Phe Phe				
	980	981		

<210> 1119

<211> 554

<212>Amino acid

<213> Homo sapiens

<400> 1119

Ser Pro Thr Arg Thr Gly Asp Arg Ser Val Ser Leu Ile Val Phe Leu				
1	5	10	15	
Thr Glu Gly Lys Pro Thr Val Gly Glu Thr His Thr Leu Lys Ile Leu				
	20	25	30	
Asn Asn Thr Arg Glu Ala Ala Arg Gly Gln Val Cys Ile Phe Thr Ile				

649

545

550

554

<210> 1120
 <211> 107
 <212>Amino acid
 <213> Homo sapiens

<400> 1120
 Val Pro Leu Glu Ser Leu Ser Cys Ser His Ala Asp Asn Trp Lys Gln
 1 5 10 15
 Glu Leu Thr Lys Phe Ile Ser Pro Asp Gln Leu Pro Val Glu Phe Gly
 20 25 30
 Gly Thr Met Thr Asp Pro Asp Gly Asn Pro Lys Cys Leu Thr Lys Ile
 35 40 45
 Asn Tyr Gly Gly Glu Val Pro Lys Ser Tyr Tyr Leu Cys Lys Gln Val
 50 55 60
 Arg Leu Gln Tyr Glu His Thr Arg Ser Val Gly Arg Gly Ser Ser Leu
 65 70 75 80
 Gln Val Glu Asn Glu Ile Leu Phe Pro Gly Cys Val Leu Arg Cys Pro
 85 90 95
 Glu Val Leu Gln His Leu Gln Pro Gly Ser Phe
 100 105 107

<210> 1121
 <211> 1241
 <212>Amino acid
 <213> Homo sapiens

<400> 1121
 Pro Ala Ala Pro Glu His Thr Asp Pro Ser Glu Pro Arg Gly Ser Val
 1 5 10 15
 Ser Cys Cys Ser Leu Leu Arg Gly Leu Ser Ser Gly Trp Ser Ser Pro
 20 25 30
 Leu Leu Pro Ala Pro Val Cys Asn Pro Asn Lys Ala Ile Phe Thr Val
 35 40 45
 Asp Ala Lys Thr Thr Glu Ile Leu Val Ala Asn Asp Lys Ala Cys Gly
 50 55 60
 Leu Leu Gly Tyr Ser Ser Gln Asp Leu Ile Gly Gln Lys Leu Thr Gln
 65 70 75 80
 Phe Phe Leu Arg Ser Asp Ser Asp Val Val Glu Ala Leu Ser Glu Glu
 85 90 95
 His Met Glu Ala Asp Gly His Ala Ala Val Val Phe Gly Thr Val Val
 100 105 110
 Asp Ile Ile Ser Arg Ser Gly Glu Lys Ile Pro Val Ser Val Trp Met
 115 120 125
 Lys Arg Met Arg Gln Glu Arg Arg Leu Cys Cys Val Val Val Leu Glu
 130 135 140
 Pro Val Glu Arg Val Ser Thr Trp Val Ala Phe Gln Ser Asp Gly Thr
 145 150 155 160
 Val Thr Ser Cys Asp Ser Leu Phe Ala His Leu His Gly Tyr Val Ser
 165 170 175
 Gly Glu Asp Val Ala Gly Gln His Ile Thr Asp Leu Ile Pro Ser Val
 180 185 190
 Gln Leu Pro Pro Ser Gly Gln His Ile Pro Lys Asn Leu Lys Ile Gln

195	200	205
Arg Ser Val Gly Arg Ala Arg Asp Gly Thr Thr Phe Pro Leu Ser Leu		
210	215	220
Lys Leu Lys Ser Gln Pro Ser Ser Glu Glu Ala Thr Thr Gly Glu Ala		
225	230	235
Ala Pro Val Ser Gly Tyr Arg Ala Ser Val Trp Val Phe Cys Thr Ile		
	245	250
Ser Gly Leu Ile Thr Leu Leu Pro Asp Gly Thr Ile His Gly Ile Asn		
	260	265
His Ser Phe Ala Leu Thr Leu Phe Gly Tyr Gly Lys Thr Glu Leu Leu		
	275	280
Gly Lys Asn Ile Thr Phe Leu Ile Pro Gly Phe Tyr Ser Tyr Met Asp		
	290	295
Leu Ala Tyr Asn Ser Ser Leu Gln Leu Pro Asp Leu Ala Ser Cys Leu		
305	310	315
Asp Val Gly Asn Glu Ser Gly Cys Gly Glu Arg Thr Leu Asp Pro Trp		
	325	330
Gln Gly Gln Asp Pro Ala Glu Gly Gly Gln Asp Pro Arg Ile Asn Val		
	340	345
Val Leu Ala Gly Gly His Val Val Pro Arg Asp Glu Ile Arg Lys Leu		
	355	360
Met Glu Ser Gln Asp Ile Phe Thr Gly Thr Gln Thr Glu Leu Ile Ala		
	370	375
Gly Gly Gln Leu Leu Ser Cys Leu Ser Pro Gln Pro Ala Pro Gly Val		
385	390	395
Asp Asn Val Pro Glu Gly Ser Leu Pro Val His Gly Glu Gln Ala Leu		
	405	410
Pro Lys Asp Gln Gln Ile Thr Ala Leu Gly Arg Glu Glu Pro Val Ala		
	420	425
Ile Glu Ser Pro Gly Gln Asp Leu Leu Gly Glu Ser Arg Ser Glu Pro		
	435	440
Val Asp Val Lys Pro Phe Ala Ser Cys Glu Asp Ser Glu Ala Pro Val		
	450	455
Pro Ala Glu Asp Gly Gly Ser Asp Ala Gly Met Cys Gly Leu Cys Gln		
465	470	475
Lys Ala Gln Leu Glu Arg Met Gly Val Ser Gly Pro Ser Gly Ser Asp		
	485	490
Leu Trp Ala Gly Ala Ala Val Ala Lys Pro Gln Ala Lys Gly Gln Leu		
	500	505
Ala Gly Gly Ser Leu Leu Met His Cys Pro Cys Tyr Gly Ser Glu Trp		
	515	520
Gly Leu Trp Trp Arg Ser Gln Asp Leu Ala Pro Ser Pro Ser Gly Met		
	530	535
Ala Gly Leu Ser Phe Gly Thr Pro Thr Leu Asp Glu Pro Trp Leu Gly		
545	550	555
Val Glu Asn Asp Arg Glu Glu Leu Gln Thr Cys Leu Ile Lys Glu Gln		
	565	570
Leu Ser Gln Leu Ser Leu Ala Gly Ala Leu Asp Val Pro His Ala Glu		
	580	585
Leu Val Pro Thr Glu Cys Gln Ala Val Thr Ala Pro Val Ser Ser Cys		
	595	600
Asp Leu Gly Gly Arg Asp Leu Cys Gly Gly Cys Thr Gly Ser Ser Ser		
	610	615
Ala Cys Tyr Ala Leu Ala Thr Asp Leu Pro Gly Gly Leu Glu Ala Val		
625	630	635
Glu Ala Gln Glu Val Asp Val Asn Ser Phe Ser Trp Asn Leu Lys Glu		
	645	650
Leu Phe Phe Ser Asp Gln Thr Asp Gln Thr Ser Ser Asn Cys Ser Cys		
	660	665
Ala Thr Ser Glu Leu Arg Glu Thr Pro Ser Ser Leu Ala Val Gly Ser		
	675	680
Asp Pro Asp Val Gly Ser Leu Gln Glu Gln Gly Ser Cys Val Leu Asp		
	690	695
Asp Arg Glu Leu Leu Leu Leu Thr Gly Thr Cys Val Asp Leu Gly Gln		
	700	

705					710					715				720	
Gly	Arg	Arg	Phe	Arg	Glu	Ser	Cys	Val	Gly	His	Asp	Pro	Thr	Glu	Pro
				725						730					735
Leu	Glu	Val	Cys	Leu	Val	Ser	Ser	Glu	His	Tyr	Ala	Ala	Ser	Asp	Arg
			740					745					750		
Glu	Ser	Pro	Gly	His	Val	Pro	Ser	Thr	Leu	Asp	Ala	Gly	Pro	Glu	Asp
		755					760					765			
Thr	Cys	Pro	Ser	Ala	Glu	Glu	Pro	Arg	Leu	Asn	Val	Gln	Val	Thr	Ser
	770					775					780				
Thr	Pro	Val	Ile	Val	Met	Arg	Gly	Ala	Ala	Gly	Leu	Gln	Arg	Glu	Ile
	785					790				795					800
Gln	Glu	Gly	Ala	Tyr	Ser	Gly	Ser	Cys	Tyr	His	Arg	Asp	Gly	Leu	Arg
				805					810					815	
Leu	Ser	Ile	Gln	Phe	Glu	Val	Arg	Arg	Val	Glu	Leu	Gln	Gly	Pro	Thr
			820					825					830		
Pro	Leu	Phe	Cys	Cys	Trp	Leu	Val	Lys	Asp	Leu	Leu	His	Ser	Gln	Arg
		835				840						845			
Asp	Ser	Ala	Ala	Arg	Thr	Arg	Leu	Phe	Leu	Ala	Ser	Leu	Pro	Gly	Ser
	850					855					860				
Thr	His	Ser	Thr	Ala	Ala	Glu	Leu	Thr	Gly	Pro	Ser	Leu	Val	Glu	Val
	865					870				875					880
Leu	Arg	Ala	Arg	Pro	Trp	Phe	Glu	Glu	Pro	Pro	Lys	Ala	Val	Glu	Leu
				885					890						895
Glu	Gly	Leu	Ala	Ala	Cys	Glu	Gly	Glu	Tyr	Ser	Gln	Lys	Tyr	Ser	Thr
			900					905					910		
Met	Ser	Pro	Leu	Gly	Ser	Gly	Ala	Phe	Gly	Phe	Val	Trp	Thr	Ala	Val
		915				920						925			
Asp	Lys	Glu	Lys	Asn	Lys	Glu	Val	Val	Val	Lys	Phe	Ile	Lys	Lys	Glu
	930					935					940				
Lys	Val	Leu	Glu	Asp	Cys	Trp	Ile	Glu	Asp	Pro	Lys	Leu	Gly	Lys	Val
	945					950				955					960
Thr	Leu	Glu	Ile	Ala	Ile	Leu	Ser	Arg	Val	Glu	His	Ala	Asn	Ile	Ile
			965						970						975
Lys	Val	Leu	Asp	Ile	Phe	Glu	Asn	Gln	Gly	Phe	Phe	Gln	Leu	Val	Met
			980					985					990		
Glu	Lys	His	Gly	Ser	Gly	Leu	Asp	Leu	Phe	Ala	Phe	Ile	Asp	Arg	His
		995				1000					1005				
Pro	Arg	Leu	Asp	Glu	Pro	Leu	Ala	Ser	Tyr	Ile	Phe	Arg	Gln	Val	Arg
	1010					1015					1020				
Ala	Gly	Gln	Ser	Arg	Leu	Val	Ser	Ala	Val	Gly	Tyr	Leu	Arg	Leu	Lys
	1025					1030				1035					1040
Asp	Ile	Ile	His	Arg	Asp	Ile	Lys	Asp	Glu	Asn	Ile	Val	Ile	Ala	Glu
			1045						1050					1055	
Asp	Phe	Thr	Ile	Lys	Leu	Ile	Asp	Phe	Gly	Ser	Ala	Ala	Tyr	Leu	Glu
			1060					1065					1070		
Arg	Gly	Lys	Leu	Phe	Tyr	Thr	Phe	Cys	Gly	Thr	Ile	Glu	Tyr	Cys	Ala
		1075					1080					1085			
Pro	Glu	Val	Leu	Met	Gly	Asn	Pro	Tyr	Arg	Gly	Pro	Glu	Leu	Glu	Met
	1090					1095					1100				
Trp	Ser	Leu	Gly	Val	Thr	Leu	Tyr	Thr	Leu	Val	Phe	Glu	Glu	Asn	Pro
	1105					1110				1115				1120	
Phe	Cys	Glu	Leu	Glu	Glu	Thr	Val	Glu	Ala	Ala	Ile	His	Pro	Pro	Tyr
			1125						1130				1135		
Leu	Val	Ser	Lys	Glu	Leu	Met	Ser	Leu	Val	Ser	Gly	Leu	Leu	Gln	Pro
			1140					1145					1150		
Val	Pro	Glu	Arg	Arg	Thr	Thr	Leu	Glu	Lys	Leu	Val	Thr	Asp	Pro	Trp
		1155				1160						1165			
Val	Thr	Gln	Pro	Val	Asn	Leu	Ala	Asp	Tyr	Thr	Trp	Glu	Glu	Val	Phe
	1170					1175					1180				
Arg	Val	Asn	Lys	Pro	Glu	Ser	Gly	Val	Leu	Ser	Ala	Ala	Ser	Leu	Glu
	1185					1190				1195					1200
Met	Gly	Asn	Arg	Ser	Leu	Ser	Asp	Val	Ala	Gln	Ala	Gln	Glu	Leu	Cys
			1205					1210						1215	
Gly	Gly	Pro	Val	Pro	Gly	Glu	Ala	Pro	Asn	Gly	Gln	Gly	Cys	Leu	His

1220 1225 1230
 Pro Gly Asp Pro Arg Leu Leu Thr Ser
 1235 1240 1241

<210> 1122
 <211> 395
 <212> Amino acid
 <213> Homo sapiens

<400> 1122
 Pro Gly Thr Ser Ala Ala Thr Cys Arg Phe Leu Ser Pro Pro Val Ile
 1 5 10 15
 Ser Leu Ser Phe Thr Gly Leu Cys Ile Ser Asp Leu Val Val Ala Val
 20 25 30
 Asn Gly Val Trp Ile Leu Val Glu Thr Phe Met Leu Lys Gly Gly Asn
 35 40 45
 Phe Phe Ser Lys His Val Pro Trp Ser Tyr Leu Val Phe Leu Thr Ile
 50 55 60
 Tyr Gly Val Glu Leu Phe Leu Lys Val Ala Gly Leu Gly Pro Val Glu
 65 70 75 80
 Tyr Leu Ser Ser Gly Trp Asn Leu Phe Asp Phe Ser Val Thr Val Phe
 85 90 95
 Ala Phe Leu Gly Leu Leu Ala Leu Ala Leu Asn Met Glu Pro Phe Tyr
 100 105 110
 Phe Ile Val Val Leu Arg Pro Leu Gln Leu Leu Arg Leu Phe Lys Leu
 115 120 125
 Lys Glu Arg Tyr Arg Asn Val Leu Asp Thr Met Phe Glu Leu Leu Pro
 130 135 140
 Arg Met Ala Ser Leu Gly Leu Thr Leu Leu Ile Phe Tyr Tyr Ser Phe
 145 150 155 160
 Ala Ile Val Gly Met Glu Phe Phe Cys Gly Ile Val Phe Pro Asn Cys
 165 170 175
 Cys Asn Thr Ser Thr Val Ala Asp Ala Tyr Arg Trp Arg Asn His Thr
 180 185 190
 Val Gly Asn Arg Thr Val Val Glu Gly Tyr Tyr Tyr Leu Asn Asn
 195 200 205
 Phe Asp Asn Ile Leu Asn Ser Phe Val Thr Leu Phe Glu Leu Thr Val
 210 215 220
 Val Asn Asn Trp Tyr Ile Ile Met Glu Gly Val Thr Ser Gln Thr Ser
 225 230 235 240
 His Trp Ser Arg Leu Tyr Phe Met Thr Phe Tyr Ile Val Thr Met Val
 245 250 255
 Val Met Thr Ile Ile Val Ala Phe Ile Leu Glu Ala Phe Val Phe Arg
 260 265 270
 Met Asn Tyr Ser Arg Lys Asn Gln Asp Ser Glu Val Asp Gly Gly Ile
 275 280 285
 Thr Leu Glu Lys Glu Ile Ser Lys Glu Glu Leu Val Ala Val Leu Glu
 290 295 300
 Leu Tyr Arg Glu Ala Arg Gly Ala Ser Ser Asp Val Thr Arg Leu Leu
 305 310 315 320
 Glu Thr Leu Ser Gln Met Glu Arg Tyr Gln Gln His Ser Met Val Phe
 325 330 335
 Leu Gly Arg Arg Ser Arg Thr Lys Ser Asp Leu Ser Leu Lys Met Tyr
 340 345 350
 Gln Glu Glu Ile Gln Glu Trp Tyr Glu Glu His Ala Arg Glu Gln Glu
 355 360 365
 Gln Gln Arg Gln Leu Ser Ser Ser Ala Ala Pro Ala Gln Gln Pro
 370 375 380
 Pro Gly Ser Arg Gln Arg Ser Gln Thr Val Thr

385

390

395

<210> 1123
 <211> 328
 <212>Amino acid
 <213> Homo sapiens

<400> 1123
 Leu Ala Gly Val Gly Thr Gln Ala Pro Pro Arg Arg Pro Gly Gly Glu
 1 5 10 15
 Met Ala Ala Gly Gln Asn Gly His Glu Glu Trp Val Gly Ser Ala Tyr
 20 25 30
 Leu Phe Val Glu Ser Ser Leu Asp Lys Val Val Leu Ser Asp Ala Tyr
 35 40 45
 Ala His Pro Gln Gln Lys Val Ala Val Tyr Arg Ala Leu Gln Ala Ala
 50 55 60
 Leu Ala Glu Ser Gly Gly Ser Pro Asp Val Leu Gln Met Leu Lys Ile
 65 70 75 80
 His Arg Ser Asp Pro Gln Leu Ile Val Gln Leu Arg Phe Cys Gly Arg
 85 90 95
 Gln Pro Cys Gly Arg Phe Leu Arg Ala Tyr Arg Glu Gly Ala Leu Arg
 100 105 110
 Ala Ala Leu Gln Arg Ser Leu Ala Ala Ala Leu Ala Gln His Ser Val
 115 120 125
 Pro Leu Gln Leu Asp Leu Arg Ala Gly Ala Glu Arg Leu Glu Ala Leu
 130 135 140
 Leu Ala Asp Glu Glu Arg Cys Leu Ser Cys Ile Leu Ala Gln Gln Pro
 145 150 155 160
 Asp Arg Leu Arg Asp Glu Glu Leu Ala Glu Leu Glu Asp Ala Leu Arg
 165 170 175
 Asn Leu Lys Cys Gly Ser Gly Ala Arg Gly Gly Asp Gly Glu Val Ala
 180 185 190
 Ser Ala Pro Leu Gln Pro Pro Val Pro Ser Leu Ser Glu Val Lys Pro
 195 200 205
 Pro Pro Pro Pro Pro Ala Gln Thr Phe Leu Phe Gln Gly Gln Pro
 210 215 220
 Val Val Asn Arg Pro Leu Ser Leu Lys Asp Gln Gln Thr Phe Ala Arg
 225 230 235 240
 Ser Val Gly Leu Lys Trp Arg Lys Val Gly Arg Ser Leu Gln Arg Gly
 245 250 255
 Cys Arg Ala Leu Arg Asp Pro Ala Leu Asp Ser Leu Ala Tyr Glu Tyr
 260 265 270
 Glu Arg Glu Gly Leu Tyr Glu Gln Ala Phe Gln Leu Leu Arg Arg Phe
 275 280 285
 Val Gln Ala Glu Gly Arg Arg Ala Thr Leu Gln Arg Leu Val Glu Ala
 290 295 300
 Leu Glu Glu Asn Glu Leu Thr Ser Leu Ala Glu Asp Leu Leu Gly Leu
 305 310 315 320
 Thr Asp Pro Asn Gly Gly Leu Ala
 325 328

<210> 1124
 <211> 667
 <212>Amino acid
 <213> Homo sapiens

<220>
 <221> misc_feature

<222> (1)...(667)

<223> X = any amino acid or stop code

<400> 1124

```

Ser Ser Lys Pro Lys Leu Lys Lys Arg Phe Ser Leu Arg Ser Val Gly
 1          5          10          15
Arg Ser Val Arg Gly Ser Val Arg Gly Ile Leu Gln Trp Arg Gly Thr
          20          25          30
Val Asp Pro Pro Ser Ser Ala Gly Pro Leu Glu Thr Ser Ser Gly Pro
          35          40          45
Pro Val Leu Gly Gly Asn Ser Asn Ser Asn Ser Ser Gly Gly Ala Gly
 50          55          60
Thr Val Gly Arg Gly Leu Val Ser Asp Gly Thr Ser Pro Gly Glu Arg
 65          70          75          80
Trp Thr His Arg Phe Glu Arg Leu Arg Leu Ser Arg Gly Gly Gly Ala
          85          90          95
Leu Lys Asp Gly Ala Gly Met Val Gln Arg Glu Glu Leu Leu Ser Phe
          100          105          110
Met Gly Ala Glu Glu Ala Ala Pro Asp Pro Ala Gly Val Gly Arg Gly
          115          120          125
Gly Gly Val Ala Gly Pro Pro Ser Gly Gly Gly Gly Gln Pro Gln Trp
 130          135          140
Gln Lys Cys Arg Leu Leu Leu Arg Ser Glu Gly Glu Gly Gly Gly Gly
 145          150          155          160
Ser Arg Leu Glu Phe Phe Val Pro Pro Lys Ala Ser Arg Pro Arg Leu
          165          170          175
Ser Ile Pro Cys Ser Ser Ile Thr Asp Val Arg Thr Thr Thr Ala Leu
          180          185          190
Glu Met Pro Asp Arg Glu Asn Thr Phe Val Val Lys Val Glu Gly Pro
          195          200          205
Ser Glu Tyr Ile Met Glu Thr Val Asp Ala Gln His Val Lys Ala Trp
 210          215          220
Val Ser Asp Ile Gln Glu Cys Leu Ser Pro Gly Pro Cys Pro Ala Thr
 225          230          235          240
Ser Pro Arg Pro Met Thr Leu Pro Leu Ala Pro Gly Thr Ser Phe Leu
          245          250          255
Thr Arg Glu Asn Thr Asp Ser Leu Glu Leu Ser Cys Leu Asn His Ser
          260          265          270
Glu Ser Leu Pro Ser Gln Asp Leu Leu Leu Gly Pro Ser Glu Ser Asn
          275          280          285
Asp Arg Leu Ser Gln Gly Ala Tyr Gly Gly Leu Ser Asp Arg Pro Ser
 290          295          300
Ala Ser Ile Ser Pro Ser Ser Ala Ser Ile Ala Ala Ser His Phe Asp
 305          310          315          320
Ser Met Glu Leu Leu Pro Pro Glu Leu Pro Pro Arg Ile Pro Ile Glu
          325          330          335
Glu Gly Pro Pro Ala Gly Thr Val His Pro Leu Ser Ala Pro Tyr Pro
          340          345          350
Pro Leu Asp Thr Pro Glu Thr Ala Thr Gly Ser Phe Leu Phe Gln Gly
          355          360          365
Glu Pro Glu Gly Gly Glu Gly Asp Gln Pro Leu Ser Gly Tyr Pro Trp
 370          375          380
Phe His Gly Met Leu Ser Arg Leu Lys Ala Ala Gln Leu Val Leu Thr
 385          390          395          400
Gly Gly Thr Gly Ser His Gly Val Phe Leu Val Arg Gln Ser Glu Thr
          405          410          415
Arg Arg Gly Glu Tyr Val Leu Thr Phe Asn Phe Gln Gly Lys Ala Lys
          420          425          430
His Leu Arg Leu Ser Leu Asn Glu Glu Gly Gln Cys Arg Val Gln His
          435          440          445

```

```

Leu Trp Phe Gln Ser Ile Phe Asp Met Leu Glu His Phe Arg Val His
  450          455          460
Pro Ile Pro Leu Glu Ser Gly Gly Ser Ser Asp Val Val Leu Val Ser
465          470          475          480
Tyr Val Pro Ser Ser Gln Arg Gln Gln Gly Glu Gln Ser Arg Ser Ala
          485          490          495
Gly Glu Glu Val Pro Val His Pro Arg Ser Glu Ala Gly Ser Arg Leu
          500          505          510
Gly Ala Met Arg Gly Cys Ala Arg Glu Met Asp Ala Thr Pro Asn Ala
          515          520          525
Ser Cys Thr Leu Met Pro Phe Gly Ala Ser Asp Cys Glu Pro Thr Thr
          530          535          540
Ser His Asp Pro Pro Gln Pro Pro Glu Pro Pro Ser Trp Thr Asp Pro
545          550          555          560
Pro Gln Pro Gly Glu Glu Glu Ala Ser Arg Ala Pro Gly Ser Gly Gly
          565          570          575
Gln Gln Ala Ala Ala Ala Lys Glu Arg Gln Glu Lys Glu Lys Ala
          580          585          590
Gly Gly Gly Gly Val Pro Glu Glu Leu Val Pro Val Val Xaa Leu Val
          595          600          605
Pro Val Gly Glu Leu Gly Glu Gly His Arg Pro Gln Ala Gln Glu Ala
          610          615          620
Gln Gly Arg Leu Gly Pro Gly Gly Asp Ala Gly Val Pro Pro Met Val
625          630          635          640
Gln Leu Gln Gln Ser Pro Leu Gly Gly Asp Gly Glu Glu Gly Gly His
          645          650          655
Pro Arg Ala Ile Asn Asn Gln Tyr Ser Phe Val
          660          665          667

```

<210> 1125

<211> 387

<212>Amino acid

<213> Homo sapiens

<400> 1125

```

Phe Arg Ala Pro Val Gly Thr Ala Ala Arg Ser Pro Gln Val Val Ile
  1          5          10          15
Arg Arg Leu Pro Pro Gly Leu Thr Lys Glu Gln Leu Glu Glu Gln Leu
          20          25          30
Arg Pro Leu Pro Ala His Asp Tyr Phe Glu Phe Phe Ala Ala Asp Leu
          35          40          45
Ser Leu Tyr Pro His Leu Tyr Ser Arg Ala Tyr Ile Asn Phe Arg Asn
          50          55          60
Pro Asp Asp Ile Leu Leu Phe Arg Asp Arg Phe Asp Gly Tyr Ile Phe
          65          70          75          80
Leu Asp Ser Lys Asp Pro Glu Tyr Lys Lys Phe Leu Glu Thr Tyr Cys
          85          90          95
Val Glu Glu Glu Lys Thr Ser Ala Asn Pro Glu Thr Leu Leu Gly Glu
          100          105          110
Met Glu Ala Lys Thr Arg Glu Leu Ile Ala Arg Arg Thr Thr Pro Leu
          115          120          125
Leu Glu Tyr Ile Lys Asn Arg Lys Leu Glu Lys Gln Arg Ile Arg Glu
          130          135          140
Glu Lys Arg Glu Glu Arg Arg Arg Arg Glu Leu Glu Lys Lys Arg Leu
          145          150          155          160
Arg Glu Glu Glu Lys Arg Arg Arg Arg Glu Glu Glu Arg Cys Lys Lys
          165          170          175
Lys Glu Thr Asp Lys Gln Lys Lys Ile Ala Glu Lys Glu Val Arg Ile
          180          185          190

```

Lys Leu Leu Lys Lys Pro Glu Lys Gly Glu Glu Pro Thr Thr Glu Lys
 195 200 205
 Pro Lys Glu Arg Gly Glu Glu Ile Asp Thr Gly Gly Gly Lys Gln Glu
 210 215 220
 Ser Cys Ala Pro Gly Ala Val Val Lys Ala Arg Pro Met Glu Gly Ser
 225 230 235 240
 Leu Glu Glu Pro Gln Glu Thr Ser His Ser Gly Ser Asp Lys Glu His
 245 250 255
 Arg Asp Val Glu Arg Ser Gln Glu Gln Glu Ser Glu Ala Gln Arg Tyr
 260 265 270
 His Val Asp Asp Gly Arg Arg His Arg Ala His His Glu Pro Glu Arg
 275 280 285
 Leu Ser Arg Arg Ser Glu Asp Glu Gln Arg Trp Gly Lys Gly Pro Gly
 290 295 300
 Gln Asp Arg Gly Lys Lys Gly Ser Gln Asp Ser Gly Ala Pro Gly Glu
 305 310 315 320
 Ala Met Glu Arg Leu Gly Arg Ala Gln Arg Cys Asp Asp Ser Pro Ala
 325 330 335
 Pro Arg Lys Glu Arg Leu Ala Asn Lys Asp Arg Pro Ala Leu Gln Leu
 340 345 350
 Tyr Asp Pro Gly Ala Arg Phe Arg Ala Arg Glu Cys Gly Gly Asn Arg
 355 360 365
 Arg Ile Cys Lys Ala Glu Gly Ser Gly Thr Gly Pro Glu Lys Arg Glu
 370 375 380
 Glu Ala Glu
 385 387

<210> 1126

<211> 208

<212> Amino acid

<213> Homo sapiens

<400> 1126

Gly Val Trp Gly Val Cys Val Ser Gly Leu Leu Gln Val Gly Ser Gln
 1 5 10 15
 Arg Ala Gln Ala Trp Arg Ala Trp Ser Pro Met Glu Thr Pro Leu Thr
 20 25 30
 Gly Thr Phe Leu Trp Pro His Ile Pro Gln Gly Leu Phe Phe Asp Asp
 35 40 45
 Ser Tyr Gly Phe Tyr Pro Gly Gln Val Leu Ile Gly Pro Ala Lys Ile
 50 55 60
 Phe Ser Ser Val Gln Trp Leu Ser Gly Val Lys Pro Val Leu Ser Thr
 65 70 75 80
 Lys Ser Lys Phe Arg Val Val Val Glu Glu Val Gln Val Val Glu Leu
 85 90 95
 Lys Val Thr Trp Ile Thr Lys Ser Phe Cys Pro Gly Gly Thr Asp Ser
 100 105 110
 Val Ser Pro Pro Pro Ser Val Ile Thr Gln Glu Asn Leu Gly Arg Val
 115 120 125
 Lys Arg Leu Gly Cys Phe Asp His Ala Gln Arg His Ala Trp Gly Ala
 130 135 140
 Leu Ser Val Cys Leu Pro Ser Gln Gly Arg Ala Ser Gln Asp Cys Leu
 145 150 155 160
 Gly Met Ser Arg Lys Lys Leu Arg Pro Gly Gly Gly Leu Tyr Gly Gln
 165 170 175
 Glu Gly Glu Ala Pro Val Glu Glu Ala Gly Cys Ala Asp His Val Met
 180 185 190
 Leu Pro Arg His Pro Val Phe Pro Gly Pro Phe His Gly Arg Pro Arg
 195 200 205 208

<210> 1127
 <211> 670
 <212> Amino acid
 <213> Homo sapiens

<400> 1127

Phe	Arg	Asp	Ser	Ser	Pro	Cys	Ser	Ala	Phe	Glu	Phe	His	Cys	Leu	Ser
1				5					10					15	
Gly	Glu	Cys	Ile	His	Ser	Ser	Trp	Arg	Cys	Asp	Gly	Gly	Pro	Asp	Cys
			20					25					30		
Lys	Asp	Lys	Ser	Asp	Glu	Glu	Asn	Cys	Ala	Val	Ala	Thr	Cys	Arg	Pro
		35					40					45			
Asp	Glu	Phe	Gln	Cys	Ser	Asp	Gly	Asn	Cys	Ile	His	Gly	Ser	Arg	Gln
	50					55				60					
Cys	Asp	Arg	Glu	Tyr	Asp	Cys	Lys	Asp	Met	Ser	Asp	Glu	Val	Gly	Cys
65				70					75					80	
Val	Asn	Val	Thr	Leu	Cys	Glu	Gly	Pro	Asn	Lys	Phe	Lys	Cys	His	Ser
				85					90					95	
Gly	Glu	Cys	Ile	Thr	Leu	Asp	Lys	Val	Cys	Asn	Met	Ala	Arg	Asp	Cys
			100					105					110		
Arg	Asp	Trp	Ser	Asp	Glu	Pro	Ile	Lys	Glu	Cys	Gly	Thr	Asn	Glu	Cys
	115						120					125			
Leu	Asp	Asn	Asn	Gly	Gly	Cys	Ser	His	Val	Cys	Asn	Asp	Leu	Lys	Ile
	130					135					140				
Gly	Tyr	Glu	Cys	Leu	Cys	Pro	Asp	Gly	Phe	Gln	Leu	Val	Ala	Gln	Arg
145				150					155					160	
Arg	Cys	Glu	Asp	Ile	Asp	Glu	Cys	Gln	Asp	Pro	Asp	Thr	Cys	Ser	Gln
				165				170					175		
Leu	Cys	Val	Asn	Leu	Glu	Gly	Gly	Tyr	Lys	Cys	Gln	Cys	Glu	Glu	Gly
		180						185					190		
Phe	Gln	Leu	Asp	Pro	His	Thr	Lys	Ala	Cys	Lys	Ala	Val	Gly	Ser	Ile
	195						200					205			
Ala	Tyr	Leu	Phe	Phe	Thr	Asn	Arg	His	Glu	Val	Arg	Lys	Met	Thr	Leu
	210					215					220				
Asp	Arg	Ser	Glu	Tyr	Thr	Ser	Leu	Ile	Pro	Asn	Leu	Arg	Asn	Val	Val
225				230					235					240	
Ala	Leu	Asp	Thr	Glu	Val	Ala	Ser	Asn	Arg	Ile	Tyr	Trp	Ser	Asp	Leu
				245				250					255		
Ser	Gln	Arg	Met	Ile	Cys	Ser	Thr	Gln	Leu	Asp	Arg	Ala	His	Gly	Val
			260					265					270		
Ser	Ser	Tyr	Asp	Thr	Val	Ile	Ser	Arg	Asp	Ile	Gln	Ala	Pro	Asp	Gly
	275						280					285			
Leu	Ala	Val	Asp	Trp	Ile	His	Ser	Asn	Ile	Tyr	Trp	Thr	Asp	Ser	Val
	290					295					300				
Leu	Gly	Thr	Val	Ser	Val	Ala	Asp	Thr	Lys	Gly	Val	Lys	Arg	Lys	Thr
305				310					315					320	
Leu	Phe	Arg	Glu	Asn	Gly	Ser	Lys	Pro	Arg	Ala	Ile	Val	Val	Asp	Pro
				325				330					335		
Val	His	Gly	Phe	Met	Tyr	Trp	Thr	Asp	Trp	Gly	Thr	Pro	Ala	Lys	Ile
			340				345					350			
Lys	Lys	Gly	Gly	Leu	Asn	Gly	Val	Asp	Ile	Tyr	Ser	Leu	Val	Thr	Glu
	355					360						365			
Asn	Ile	Gln	Trp	Pro	Asn	Gly	Ile	Thr	Leu	Asp	Leu	Leu	Ser	Gly	Arg
	370				375						380				
Leu	Tyr	Trp	Val	Asp	Ser	Lys	Leu	His	Ser	Ile	Ser	Ser	Ile	Asp	Val
385					390					395				400	

Asn Gly Gly Asn Arg Lys Thr Ile Leu Glu Asp Glu Lys Arg Leu Ala
 405 410 415
 His Pro Phe Ser Leu Ala Val Phe Glu Asp Lys Val Phe Trp Thr Asp
 420 425 430
 Ile Ile Asn Glu Ala Ile Phe Ser Ala Asn Arg Leu Thr Gly Ser Asp
 435 440 445
 Val Asn Leu Leu Ala Glu Asn Leu Leu Ser Pro Glu Asp Met Val Leu
 450 455 460
 Phe His Asn Leu Thr Gln Pro Arg Gly Val Asn Trp Cys Glu Arg Thr
 465 470 475 480
 Thr Leu Ser Asn Gly Gly Cys Gln Tyr Leu Cys Leu Pro Ala Pro Gln
 485 490 495
 Ile Asn Pro His Ser Pro Lys Phe Thr Cys Ala Cys Pro Asp Gly Met
 500 505 510
 Leu Leu Ala Arg Asp Met Arg Ser Cys Leu Thr Glu Gly Glu Ala Ala
 515 520 525
 Val Ala Thr Gln Glu Thr Ser Thr Val Arg Leu Lys Val Ser Ser Thr
 530 535 540
 Ala Val Arg Thr Gln His Thr Thr Thr Arg Pro Val Pro Asp Thr Ser
 545 550 555 560
 Arg Leu Pro Gly Ala Thr Pro Gly Leu Thr Thr Val Glu Ile Val Thr
 565 570 575
 Met Ser His Gln Ala Leu Gly Asp Val Ala Gly Arg Gly Asn Glu Lys
 580 585 590
 Lys Pro Ser Ser Val Arg Ala Leu Ser Ile Val Leu Pro Ile Val Leu
 595 600 605
 Leu Val Phe Leu Cys Leu Gly Val Phe Leu Leu Trp Lys Asn Trp Arg
 610 615 620
 Leu Lys Asn Ile Asn Ser Ile Asn Phe Asp Asn Pro Val Tyr Gln Lys
 625 630 635 640
 Thr Thr Glu Asp Glu Val His Ile Cys His Asn Gln Asp Gly Tyr Ser
 645 650 655
 Tyr Pro Ser Arg Gln Met Val Ser Leu Glu Asp Asp Val Ala
 660 665 670

<210> 1128

<211> 383

<212>Amino acid

<213> Homo sapiens

<400> 1128

Arg Ile Pro Gly Leu Gly Pro Pro Gly Ser Pro Pro Pro Pro Pro His
 1 5 10 15
 Val Arg Gly Met Pro Gly Cys Pro Cys Pro Gly Cys Gly Met Ala Gly
 20 25 30
 Pro Arg Leu Leu Phe Leu Thr Ala Leu Ala Leu Glu Leu Leu Gly Arg
 35 40 45
 Ala Gly Gly Ser Gln Pro Ala Leu Arg Ser Arg Gly Thr Ala Thr Ala
 50 55 60
 Cys Arg Leu Asp Asn Lys Glu Ser Glu Ser Trp Gly Ala Leu Leu Ser
 65 70 75 80
 Gly Glu Arg Leu Asp Thr Trp Ile Cys Ser Leu Leu Gly Ser Leu Met
 85 90 95
 Val Gly Leu Ser Gly Val Phe Pro Leu Leu Val Ile Pro Leu Glu Met
 100 105 110
 Gly Thr Met Leu Arg Ser Glu Ala Gly Ala Trp Arg Leu Lys Gln Leu
 115 120 125
 Leu Ser Phe Ala Leu Gly Gly Leu Leu Gly Asn Val Phe Leu His Leu
 130 135 140

Leu Pro Glu Ala Trp Ala Tyr Thr Cys Ser Ala Ser Pro Gly Gly Glu
 145 150 155 160
 Gly Gln Ser Leu Gln Gln Gln Gln Leu Gly Leu Trp Val Ile Ala
 165 170 175
 Gly Ile Leu Thr Phe Leu Ala Leu Glu Lys Met Phe Leu Asp Ser Lys
 180 185 190
 Glu Glu Gly Thr Ser Gln Ala Pro Asn Lys Asp Pro Thr Ala Ala Ala
 195 200 205
 Ala Ala Leu Asn Gly Gly His Cys Leu Ala Gln Pro Ala Ala Glu Pro
 210 215 220
 Gly Leu Gly Ala Val Val Arg Ser Ile Lys Val Ser Gly Tyr Leu Asn
 225 230 235 240
 Leu Leu Ala Asn Thr Ile Asp Asn Phe Thr His Gly Leu Ala Val Ala
 245 250 255
 Ala Ser Phe Leu Val Ser Lys Lys Ile Gly Leu Leu Thr Thr Met Ala
 260 265 270
 Ile Leu Leu His Glu Ile Pro His Glu Val Gly Asp Phe Ala Ile Leu
 275 280 285
 Leu Arg Ala Gly Phe Asp Arg Trp Ser Ala Ala Lys Leu Gln Leu Ser
 290 295 300
 Thr Ala Leu Gly Gly Leu Leu Gly Ala Gly Phe Ala Ile Cys Thr Gln
 305 310 315 320
 Ser Pro Lys Gly Val Glu Glu Thr Ala Ala Trp Val Leu Pro Phe Thr
 325 330 335
 Ser Gly Gly Phe Leu Tyr Ile Ala Leu Val Asn Val Leu Pro Asp Leu
 340 345 350
 Leu Glu Glu Glu Asp Pro Trp Arg Ser Leu Gln Gln Leu Leu Leu Leu
 355 360 365
 Cys Ala Gly Ile Val Val Met Val Leu Phe Ser Leu Phe Val Asp
 370 375 380 383

<210> 1129

<211> 174

<212> Amino acid

<213> Homo sapiens

<400> 1129

Gly Lys Val Ser Ala Gly Gln Ala Gly Ala Asp Arg Thr Leu Arg Arg
 1 5 10 15
 Ala Pro Glu Pro Arg Phe Ser Gln Glu Pro Thr Gly Asn Ser Ala Tyr
 20 25 30
 Pro Gln Leu Arg Pro Phe Leu Asp Pro Gln Gly Arg Asp Leu Lys Pro
 35 40 45
 Ser Ala Leu Val Pro Pro Thr Arg Ser His Thr Gly Arg Arg Pro Trp
 50 55 60
 Leu His Thr Gln Pro Leu Pro Gly Pro Gln Gly Arg Ala Trp Gly Pro
 65 70 75 80
 Thr Cys Thr Pro Ala Cys Val Asp Arg Val Leu Glu Ser Glu Glu Gly
 85 90 95
 Arg Arg Glu Tyr Leu Ala Phe Pro Thr Ser Lys Ser Ser Gly Gln Lys
 100 105 110
 Gly Arg Lys Glu Leu Leu Lys Gly Asn Gly Arg Arg Ile Asp Tyr Met
 115 120 125
 Leu His Ala Glu Glu Gly Leu Cys Pro Asp Trp Lys Ala Glu Val Glu
 130 135 140
 Glu Phe Ser Phe Ile Thr Gln Leu Ser Gly Leu Thr Asp His Leu Pro
 145 150 155 160
 Val Ala Met Arg Leu Met Val Ser Ser Gly Glu Glu Glu Ala
 165 170 174

<210> 1130
 <211> 231
 <212>Amino acid
 <213> Homo sapiens

<400> 1130
 Pro Cys Gly Gly Ile Arg Leu Ser Ala Ser Glu Ala Ala Thr Leu Phe
 1 5 10 15
 Gly Tyr Leu Val Val Pro Ala Gly Gly Gly Thr Phe Leu Gly Gly
 20 25 30
 Phe Phe Val Asn Lys Leu Arg Leu Arg Gly Ser Ala Val Ile Lys Phe
 35 40 45
 Cys Leu Phe Cys Thr Val Val Ser Leu Leu Gly Ile Leu Val Phe Ser
 50 55 60
 Leu His Cys Pro Ser Val Pro Met Ala Gly Val Thr Ala Ser Tyr Gly
 65 70 75 80
 Gly Ser Leu Leu Pro Glu Gly His Leu Asn Leu Thr Ala Pro Cys Asn
 85 90 95
 Ala Ala Cys Ser Cys Gln Pro Glu His Tyr Ser Pro Val Cys Gly Ser
 100 105 110
 Asp Gly Leu Met Tyr Phe Ser Leu Cys His Ala Gly Cys Pro Ala Ala
 115 120 125
 Thr Glu Thr Asn Val Asp Gly Gln Lys Val Ser Gly Ala Ala Ala Tyr
 130 135 140
 Arg Pro Cys Pro Pro Leu Asp Pro Gly Lys Gly Pro Pro Cys Leu Pro
 145 150 155 160
 Leu Val Ile Gly Ala Ile Val Gly Leu Pro Arg Cys Thr Glu Thr Val
 165 170 175
 Ala Val Ser Leu Arg Ile Phe Pro Leu Val Leu Ala Met His Cys Arg
 180 185 190
 Glu Met His Phe Asn Leu Ser Glu Lys Ala Pro Pro Ser Gly Phe His
 195 200 205
 Ile Arg Cys Asn Phe Leu Tyr Ile Pro Gln Gln His Ser Cys Thr Asn
 210 215 220
 Gly Asn Ser Thr Met Cys Pro
 225 230 231

<210> 1131
 <211> 234
 <212>Amino acid
 <213> Homo sapiens

<400> 1131
 Leu Leu Arg Lys Val Gly Ala Pro Gly Gly Ala Arg Gly Val Ile Arg
 1 5 10 15
 Leu Leu Asp Trp Phe Glu Arg Pro Asp Gly Phe Leu Leu Val Leu Glu
 20 25 30
 Arg Pro Glu Pro Ala Gln Asp Leu Phe Asp Phe Ile Thr Glu Arg Gly
 35 40 45
 Ala Leu Asp Glu Pro Leu Ala Arg Arg Phe Phe Ala Gln Val Leu Ala
 50 55 60
 Ala Val Arg His Cys His Ser Cys Gly Val Val His Arg Asp Ile Lys
 65 70 75 80

```

Asp Glu Asn Leu Leu Val Asp Leu Arg Ser Gly Glu Leu Lys Leu Ile
      85                      90                      95
Asp Phe Gly Ser Gly Ala Leu Leu Lys Asp Thr Val Tyr Thr Asp Phe
      100                    105                    110
Asp Gly Thr Arg Val Tyr Ser Pro Pro Glu Trp Ile Arg Tyr His Arg
      115                    120                    125
Tyr His Gly Arg Ser Ala Thr Val Trp Ser Leu Gly Val Leu Leu Tyr
      130                    135                    140
Asp Met Val Cys Gly Asp Ile Pro Phe Glu Gln Asp Glu Glu Ile Leu
      145                    150                    155                    160
Arg Gly Arg Leu Leu Phe Arg Arg Arg Val Ser Pro Glu Cys Gln Gln
      165                    170                    175
Leu Ile Arg Trp Cys Leu Ser Leu Arg Pro Ser Glu Arg Pro Ser Leu
      180                    185                    190
Asp Gln Ile Ala Ala His Pro Trp Met Leu Gly Ala Asp Gly Gly Ala
      195                    200                    205
Pro Glu Ser Cys Asp Leu Arg Leu Cys Thr Leu Asp Pro Asp Asp Val
      210                    215                    220
Ala Ser Thr Thr Ser Ser Ser Glu Ser Leu
      225                    230                    234

```

```

<210> 1132
<211> 270
<212> Amino acid
<213> Homo sapiens

```

```

<400> 1132
Gly Lys Asn Ser Gln Lys Ala Ser Pro Val Asp Asp Glu Gln Leu Ser
  1      5                      10                      15
Val Cys Leu Ser Gly Phe Leu Asp Glu Val Met Lys Lys Tyr Gly Ser
      20                    25                    30
Leu Val Pro Leu Ser Glu Lys Glu Val Leu Gly Arg Leu Lys Asp Val
      35                    40                    45
Phe Asn Glu Asp Phe Ser Asn Arg Lys Pro Phe Ile Asn Arg Glu Ile
      50                    55                    60
Thr Asn Tyr Arg Ala Arg His Gln Lys Cys Asn Phe Arg Ile Phe Tyr
      65                    70                    75                    80
Asn Lys His Met Leu Asp Met Asp Asp Leu Ala Thr Leu Asp Gly Gln
      85                    90                    95
Asn Trp Leu Asn Asp Gln Val Ile Asn Met Tyr Gly Glu Leu Ile Met
      100                    105                    110
Asp Ala Val Pro Asp Lys Val His Phe Phe Asn Ser Phe Phe His Arg
      115                    120                    125
Gln Leu Val Thr Lys Gly Tyr Asn Gly Val Lys Arg Trp Thr Lys Lys
      130                    135                    140
Val Asp Leu Phe Lys Lys Ser Leu Leu Leu Ile Pro Ile His Leu Glu
      145                    150                    155                    160
Val His Trp Ser Leu Ile Thr Val Thr Leu Ser Asn Arg Ile Ile Ser
      165                    170                    175
Phe Tyr Asp Ser Gln Gly Ile His Phe Lys Phe Cys Val Glu Asn Ile
      180                    185                    190
Arg Lys Tyr Leu Leu Thr Glu Ala Arg Glu Lys Asn Arg Leu Asn Leu
      195                    200                    205
Gln Gly Trp Gln Thr Ala Val Thr Lys Cys Ile Pro Gln Gln Lys Asn
      210                    215                    220
Asp Ser Asp Cys Gly Val Phe Val Leu Gln Tyr Cys Lys Cys Leu Ala
      225                    230                    235                    240
Leu Lys Gln Pro Phe Gln Phe Ser Gln Glu Asp Met Pro Arg Val Arg
      245                    250                    255

```

Lys Arg Ile Tyr Lys Glu Leu Cys Glu Cys Arg Leu Met Asp
 260 265 270

<210> 1133
 <211> 204
 <212>Amino acid
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(204)
 <223> X = any amino acid or stop code

<400> 1133
 Pro Pro Gly Gly Xaa Gln Gly Ser Ala Ala Lys His Arg Phe Pro Lys
 1 5 10 15
 Gly Tyr Arg His Pro Ala Leu Glu Ala Arg Leu Gly Arg Arg Arg Thr
 20 25 30
 Val Gln Glu Ala Arg Ala Leu Leu Arg Cys Arg Arg Ala Gly Ile Ser
 35 40 45
 Ala Pro Val Val Phe Phe Val Asp Tyr Ala Ser Asn Cys Leu Tyr Met
 50 55 60
 Glu Glu Ile Glu Gly Ser Val Thr Val Arg Asp Tyr Ile Gln Ser Thr
 65 70 75 80
 Met Glu Thr Glu Lys Thr Pro Gln Gly Leu Ser Asn Leu Ala Lys Thr
 85 90 95
 Ile Gly Gln Val Leu Ala Arg Met His Asp Glu Asp Leu Ile His Gly
 100 105 110
 Asp Leu Thr Thr Ser Asn Met Leu Leu Lys Pro Pro Leu Glu Gln Leu
 115 120 125
 Asn Ile Val Leu Ile Asp Phe Gly Leu Ser Phe Ile Ser Ala Leu Pro
 130 135 140
 Glu Asp Lys Gly Val Asp Leu Tyr Val Leu Glu Lys Ala Phe Leu Ser
 145 150 155 160
 Thr His Pro Asn Thr Glu Thr Val Phe Glu Ala Phe Leu Lys Ser Tyr
 165 170 175
 Ser Thr Ser Ser Lys Lys Ala Arg Pro Val Leu Lys Lys Leu Asp Glu
 180 185 190
 Val Arg Leu Arg Gly Lys Lys Arg Ser Met Val Gly
 195 200 204

<210> 1134
 <211> 531
 <212>Amino acid
 <213> Homo sapiens

<400> 1134
 Arg Ala Cys Val Phe Arg Pro Glu Asp Met Met Gln Gly Glu Ala His
 1 5 10 15
 Pro Ser Ala Ser Leu Ile Asp Arg Thr Ile Lys Met Arg Lys Glu Thr
 20 25 30
 Glu Ala Arg Lys Val Val Leu Ala Trp Gly Leu Leu Asn Val Ser Met
 35 40 45
 Ala Gly Met Ile Tyr Thr Glu Met Thr Gly Lys Leu Ile Ser Ser Tyr

50	55	60
Tyr Asn Val Thr Tyr Trp Pro Leu Trp Tyr Ile Glu Leu Ala Leu Ala		
65	70	75
Ser Leu Phe Ser Leu Asn Ala Leu Phe Asp Phe Trp Arg Tyr Phe Lys		80
	85	90
Tyr Thr Val Ala Pro Thr Ser Leu Val Val Ser Pro Gly Gln Gln Thr		95
	100	105
Leu Leu Gly Leu Lys Thr Ala Val Val Gln Thr Thr Pro Pro His Asp		110
	115	120
Leu Ala Ala Thr Gln Ile Pro Pro Ala Pro Pro Ser Ser Ile Gln		125
	130	135
Gly Gln Ser Val Leu Ser Tyr Ser Pro Ser Arg Ser Pro Ser Thr Ser		140
145	150	155
Pro Lys Phe Thr Thr Ser Cys Met Thr Gly Tyr Ser Pro Gln Leu Gln		160
	165	170
Gly Leu Ser Ser Gly Gly Ser Gly Ser Tyr Ser Pro Gly Val Thr Tyr		175
	180	185
Ser Pro Val Ser Gly Tyr Asn Lys Leu Ala Ser Phe Ser Pro Ser Pro		190
	195	200
Pro Ser Pro Tyr Pro Thr Thr Val Gly Pro Val Glu Ser Ser Gly Leu		205
	210	215
Arg Ser Arg Tyr Arg Ser Ser Pro Thr Val Tyr Asn Ser Pro Thr Asp		220
225	230	235
Lys Glu Asp Tyr Met Thr Asp Leu Arg Thr Leu Asp Thr Phe Leu Arg		240
	245	250
Ser Glu Glu Glu Lys Gln His Arg Val Lys Leu Gly Ser Pro Asp Ser		255
	260	265
Thr Ser Pro Ser Ser Ser Pro Thr Phe Trp Asn Tyr Ser Arg Ser Met		270
	275	280
Gly Asp Tyr Ala Gln Thr Leu Lys Lys Phe Gln Tyr Gln Leu Ala Cys		285
	290	295
Arg Ser Gln Ala Pro Cys Ala Asn Lys Asp Glu Ala Asp Leu Ser Ser		300
305	310	315
Lys Gln Ala Ala Glu Glu Val Trp Ala Arg Val Ala Met Asn Arg Gln		320
	325	330
Leu Leu Asp His Met Asp Ser Trp Thr Ala Lys Phe Arg Asn Trp Ile		335
	340	345
Asn Glu Thr Ile Leu Val Pro Leu Val Gln Glu Ile Glu Ser Val Ser		350
	355	360
Thr Gln Met Arg Arg Met Gly Cys Pro Glu Leu Gln Ile Gly Glu Ala		365
	370	375
Ser Ile Thr Ser Leu Lys Gln Ala Ala Leu Val Lys Ala Pro Leu Ile		380
385	390	395
Pro Thr Leu Asn Thr Ile Val Gln Tyr Leu Asp Leu Thr Pro Asn Gln		400
	405	410
Glu Tyr Leu Phe Glu Arg Ile Lys Glu Leu Ser Gln Gly Gly Cys Met		415
	420	425
Ser Ser Phe Arg Trp Asn Arg Gly Gly Asp Phe Lys Gly Arg Lys Trp		430
	435	440
Asp Thr Asp Leu Pro Thr Asp Ser Ala Ile Ile Met His Val Phe Cys		445
	450	455
Thr Tyr Leu Asp Ser Arg Leu Pro Pro His Pro Lys Tyr Pro Asp Gly		460
465	470	475
Lys Thr Phe Thr Ser Gln His Phe Val Gln Thr Pro Asn Lys Pro Asp		480
	485	490
Val Thr Asn Glu Asn Val Phe Cys Ile Tyr Gln Ser Ala Ile Asn Pro		495
	500	505
Pro His Tyr Glu Leu Ile Tyr Gln Arg His Val Tyr Ile Pro Ala Lys		510
	515	520
Gly Gln Lys		525
530 531		

<210> 1135

<211> 508
 <212> Amino acid
 <213> Homo sapiens

<400> 1135
 Ser Ser Ala Val Glu Phe Ile Asn Arg Asn Asn Ser Val Val Gln Val
 1 5 10 15
 Leu Leu Ala Ala Gly Ala Asp Pro Asn Leu Gly Asp Asp Phe Ser Ser
 20 25 30
 Val Tyr Lys Thr Ala Lys Glu Gln Gly Ile His Ser Leu Glu Val Leu
 35 40 45
 Ile Thr Arg Glu Asp Asp Phe Asn Asn Arg Leu Asn Asn Arg Ala Ser
 50 55 60
 Phe Lys Gly Cys Thr Ala Leu His Tyr Ala Val Leu Ala Asp Asp Tyr
 65 70 75 80
 Arg Thr Val Lys Glu Leu Leu Asp Gly Gly Ala Asn Pro Leu Gln Arg
 85 90 95
 Asn Glu Met Gly His Thr Pro Leu Asp Tyr Ala Arg Glu Gly Glu Val
 100 105 110
 Met Lys Leu Leu Arg Thr Ser Glu Ala Lys Tyr Gln Glu Lys Gln Arg
 115 120 125
 Lys Arg Glu Ala Glu Glu Arg Arg Phe Pro Leu Glu Gln Arg Leu
 130 135 140
 Lys Glu His Ile Ile Gly Gln Glu Ser Ala Ile Ala Thr Val Gly Ala
 145 150 155 160
 Ala Ile Arg Arg Lys Glu Asn Gly Trp Tyr Asp Glu Glu His Pro Leu
 165 170 175
 Val Phe Leu Phe Leu Gly Ser Ser Gly Ile Gly Lys Thr Glu Leu Ala
 180 185 190
 Lys Gln Thr Ala Lys Tyr Met His Lys Asp Ala Lys Lys Gly Phe Ile
 195 200 205
 Arg Leu Asp Met Ser Glu Phe Gln Glu Arg His Glu Val Ala Lys Phe
 210 215 220
 Ile Gly Ser Pro Pro Gly Tyr Val Gly His Glu Glu Gly Gly Gln Leu
 225 230 235 240
 Thr Lys Lys Leu Lys Gln Cys Pro Asn Ala Val Val Leu Phe Asp Glu
 245 250 255
 Val Asp Lys Ala His Pro Asp Val Leu Thr Ile Met Leu Gln Leu Phe
 260 265 270
 Asp Glu Gly Arg Leu Thr Asp Gly Lys Gly Lys Thr Ile Asp Cys Lys
 275 280 285
 Asp Ala Ile Phe Ile Met Thr Ser Asn Val Ala Ser Asp Glu Ile Ala
 290 295 300
 Gln His Ala Leu Gln Leu Arg Gln Glu Ala Leu Glu Met Ser Arg Asn
 305 310 315 320
 Arg Ile Ala Glu Asn Leu Gly Asp Val Gln Ile Ser Asp Lys Ile Thr
 325 330 335
 Ile Ser Lys Asn Phe Lys Glu Asn Val Ile Arg Pro Ile Leu Lys Ala
 340 345 350
 His Phe Arg Arg Asp Glu Phe Leu Gly Arg Ile Asn Glu Ile Val Tyr
 355 360 365
 Phe Leu Pro Phe Cys His Ser Glu Leu Ile Gln Leu Val Asn Lys Glu
 370 375 380
 Leu Asn Phe Trp Ala Lys Arg Ala Lys Gln Arg His Asn Ile Thr Leu
 385 390 395 400
 Leu Trp Asp Arg Glu Val Ala Asp Val Leu Val Asp Gly Tyr Asn Val
 405 410 415
 His Tyr Gly Ala Arg Ser Ile Lys His Glu Val Glu Arg Arg Val Gly
 420 425 430
 Asn Gln Leu Ala Ala Ala Tyr Glu Gln Asp Leu Leu Pro Gly Gly Cys

```

      435      440      445
Thr Leu Arg Ile Thr Val Glu Asp Ser Asp Lys Gln Leu Leu Lys Ser
  450      455      460
Pro Glu Leu Pro Ser Pro Gln Ala Glu Lys Arg Leu Pro Lys Leu Arg
465      470      475      480
Leu Glu Ile Ile Asp Lys Asp Ser Lys Thr Arg Arg Leu Asp Ile Arg
      485      490      495
Ala Pro Leu His Pro Glu Lys Val Cys Asn Thr Ile
      500      505      508

```

<210> 1136
 <211> 81
 <212>Amino acid
 <213> Homo sapiens

```

      <400> 1136
Ser Ser Cys Asp Arg Glu Arg His Gly Ser Leu Gly Met Met Ser Gly
  1      5      10      15
Ser Phe Ile Leu Cys Leu Ala Leu Val Thr Arg Trp Ser Pro Gln Ala
      20      25      30
Ser Ser Val Pro Leu Ala Val Tyr Glu Ser Lys Thr Arg Lys Ser Tyr
      35      40      45
Arg Ser Gln Arg Asp Arg Asp Gly Lys Asp Arg Ser Gln Gly Met Gly
      50      55      60
Leu Ser Leu Leu Val Glu Thr Arg Lys Leu Leu Leu Ser Ala Asn Gln
  65      70      75      80
Gly
  81

```

<210> 1137
 <211> 260
 <212>Amino acid
 <213> Homo sapiens

```

      <400> 1137
His Thr Pro Met Ala Phe Phe Leu Ser Phe Leu Ser Thr Ser Glu Thr
  1      5      10      15
Val Tyr Thr Phe Val Ile Leu Pro Lys Met Leu Ile Asn Leu Leu Ser
      20      25      30
Val Ala Arg Thr Ile Ser Phe Asn Cys Cys Ala Leu Gln Met Phe Phe
      35      40      45
Phe Leu Gly Phe Ala Ile Thr Asn Cys Leu Leu Leu Gly Val Met Gly
      50      55      60
Tyr Asp Arg Tyr Ala Ala Ile Cys His Pro Leu His Tyr Pro Thr Leu
  65      70      75      80
Met Ser Trp Gln Val Cys Gly Lys Leu Ala Ala Ala Cys Ala Ile Gly
      85      90      95
Gly Phe Leu Ala Ser Leu Thr Val Val Asn Leu Val Phe Ser Leu Pro
      100      105      110
Phe Cys Ser Thr Asn Lys Val Asn His Tyr Phe Cys Asp Ile Ser Ala
      115      120      125
Val Ile Leu Leu Ala Cys Thr Asn Thr Asp Val Asn Gly Phe Val Ile
      130      135      140
Phe Ile Cys Gly Val Leu Val Leu Val Val Pro Phe Leu Phe Ile Cys

```

```

145          150          155          160
Val Ser Tyr Phe Cys Ile Leu Arg Thr Ile Leu Lys Ile Pro Ser Ala
          165          170          175
Glu Gly Arg Arg Lys Ala Phe Ser Thr Cys Ala Ser His Leu Ser Val
          180          185          190
Val Ile Val His Tyr Gly Cys Ala Ser Phe Ile Tyr Leu Arg Pro Thr
          195          200          205
Ala Asn Tyr Val Ser Asn Lys Asp Arg Leu Val Thr Val Thr Tyr Thr
          210          215          220
Ile Val Thr Pro Leu Leu Asn Pro Met Val Tyr Ser Leu Arg Asn Lys
225          230          235          240
Asp Val Gln Leu Ala Ile Arg Lys Val Leu Gly Lys Lys Gly Ser Leu
          245          250          255
Lys Leu Tyr Asn
          260

```

```

<210> 1138
<211> 393
<212>Amino acid
<213> Homo sapiens

```

```

<400> 1138
Arg Pro Pro Ala Ala Thr Arg Tyr Pro Arg Glu Lys Leu Lys Ser Met
 1          5          10          15
Thr Ser Arg Asp Asn Tyr Lys Ala Gly Ser Arg Glu Ala Ala Ala Ala
          20          25          30
Ala Ala Ala Val Ala Ala Ala Ala Ala Ala Ala Ala Ala Glu
          35          40          45
Pro Tyr Pro Val Ser Gly Ala Lys Arg Lys Tyr Leu Glu Asp Ser Asp
          50          55          60
Pro Glu Arg Ser Asp Tyr Glu Glu Gln Gln Leu Gln Glu Glu Glu
          65          70          75          80
Ala Arg Lys Val Lys Ser Gly Ile Arg Gln Met Arg Leu Phe Ser Gln
          85          90          95
Asp Glu Cys Ala Lys Ile Glu Ala Arg Ile Asp Glu Val Val Ser Arg
          100          105          110
Ala Glu Lys Gly Leu Tyr Asn Glu His Thr Val Asp Arg Ala Pro Leu
          115          120          125
Arg Asn Lys Tyr Phe Phe Gly Glu Gly Tyr Thr Tyr Gly Ala Gln Leu
          130          135          140
Gln Lys Arg Gly Pro Gly Gln Glu Arg Leu Tyr Pro Pro Gly Asp Val
145          150          155          160
Asp Glu Ile Pro Glu Trp Val His Gln Leu Val Ile Gln Lys Leu Val
          165          170          175
Glu His Arg Val Ile Pro Glu Gly Phe Val Asn Ser Ala Val Ile Asn
          180          185          190
Asp Tyr Gln Pro Gly Gly Cys Ile Val Ser His Val Asp Pro Ile His
          195          200          205
Ile Phe Glu Arg Pro Ile Val Ser Val Ser Phe Phe Ser Asp Ser Ala
          210          215          220
Leu Cys Phe Gly Cys Lys Phe Gln Phe Lys Pro Ile Arg Val Ser Glu
225          230          235          240
Pro Val Leu Ser Leu Pro Val Arg Arg Gly Ser Val Thr Val Leu Ser
          245          250          255
Gly Tyr Ala Ala Asp Glu Ile Thr His Cys Ile Arg Pro Gln Asp Ile
          260          265          270
Lys Glu Arg Arg Ala Val Ile Ile Leu Arg Lys Thr Arg Leu Asp Ala
          275          280          285
Pro Arg Leu Glu Thr Lys Ser Leu Ser Ser Ser Val Leu Pro Pro Ser

```

```

      290              295              300
Tyr Ala Ser Asp Arg Leu Ser Gly Asn Asn Arg Asp Pro Ala Leu Lys
305              310              315              320
Pro Lys Arg Ser His Arg Lys Ala Asp Pro Asp Ala Ala His Arg Pro
      325              330              335
Arg Ile Leu Glu Met Asp Lys Glu Glu Asn Arg Arg Ser Val Leu Leu
      340              345              350
Pro Thr His Arg Arg Arg Gly Ser Phe Ser Ser Glu Asn Tyr Trp Arg
      355              360              365
Lys Ser Tyr Glu Ser Ser Glu Asp Cys Ser Glu Ala Ala Gly Ser Pro
      370              375              380
Ala Arg Lys Val Lys Met Arg Arg His
385              390              393

```

```

<210> 1139
<211> 545
<212>Amino acid
<213> Homo sapiens

```

```

      <400> 1139
Val Thr Trp His Phe Tyr Phe Cys Ser Asp His Lys Asn Gly His Tyr
  1              5              10              15
Ile Ile Pro Gln Met Ala Asp Arg Ser Arg Gln Lys Cys Met Ser Gln
      20              25              30
Ser Leu Asp Leu Ser Glu Leu Ala Lys Ala Ala Lys Lys Lys Leu Gln
      35              40              45
Ala Leu Ser Asn Arg Leu Phe Glu Glu Leu Ala Met Asp Val Tyr Asp
      50              55              60
Glu Val Asp Arg Arg Glu Asn Asp Ala Val Trp Leu Ala Thr Gln Asn
      65              70              75              80
His Ser Thr Leu Val Thr Glu Arg Ser Ala Val Pro Phe Leu Pro Val
      85              90              95
Asn Pro Glu Tyr Ser Ala Thr Arg Asn Gln Gly Arg Gln Lys Leu Ala
      100             105             110
Arg Phe Asn Ala Arg Glu Phe Ala Thr Leu Ile Ile Asp Ile Leu Ser
      115             120             125
Glu Ala Lys Arg Arg Gln Gln Gly Lys Ser Leu Ser Ser Pro Thr Asp
      130             135             140
Asn Leu Glu Leu Ser Leu Arg Ser Gln Ser Asp Leu Asp Asp Gln His
      145             150             155             160
Asp Tyr Asp Ser Val Ala Ser Asp Glu Asp Thr Asp Gln Glu Pro Leu
      165             170             175
Arg Ser Thr Gly Ala Thr Arg Ser Asn Arg Ala Arg Ser Met Asp Ser
      180             185             190
Ser Asp Leu Ser Asp Gly Ala Val Thr Leu Gln Glu Tyr Leu Glu Leu
      195             200             205
Lys Lys Ala Leu Ala Thr Ser Glu Ala Lys Val Gln Gln Leu Met Lys
      210             215             220
Val Asn Ser Ser Leu Ser Asp Glu Leu Arg Arg Leu Gln Arg Glu His
      225             230             235             240
Phe Ala Pro Ile Ile His Lys Leu Gln Ala Glu Asn Leu Gln Leu Arg
      245             250             255
Gln Pro Pro Gly Pro Val Pro Thr Pro Pro Leu Pro Ser Glu Arg Ala
      260             265             270
Glu His Thr Pro Met Ala Pro Gly Gly Ser Thr His Arg Arg Asp Arg
      275             280             285
Gln Ala Phe Ser Met Tyr Glu Pro Gly Ser Ala Leu Lys Pro Phe Gly
      290             295             300
Gly Pro Pro Gly Asp Glu Leu Thr Thr Arg Leu Gln Pro Phe His Ser

```

305 310 315 320
 Thr Glu Leu Glu Asp Asp Ala Ile Tyr Ser Val His Val Pro Ala Gly
 325 330 335
 Leu Tyr Arg Ile Arg Lys Gly Val Ser Ala Ser Ala Val Pro Phe Thr
 340 345 350
 Pro Ser Ser Pro Leu Leu Ser Cys Ser Gln Glu Gly Ser Arg His Thr
 355 360 365
 Ser Lys Leu Ser Arg His Gly Ser Gly Ala Asp Ser Asp Tyr Glu Asn
 370 375 380
 Thr Gln Ser Gly Asp Pro Leu Leu Gly Leu Glu Gly Lys Arg Phe Leu
 385 390 395 400
 Glu Leu Gly Lys Glu Glu Asp Phe His Pro Glu Leu Glu Ser Leu Asp
 405 410 415
 Gly Asp Leu Asp Pro Gly Leu Pro Ser Thr Glu Asp Val Ile Leu Lys
 420 425 430
 Thr Glu Gln Val Thr Lys Asn Ile Gln Glu Leu Leu Arg Ala Ala Gln
 435 440 445
 Glu Phe Lys His Asp Ser Phe Val Pro Cys Ser Glu Lys Ile His Leu
 450 455 460
 Ala Val Thr Glu Met Ala Ser Leu Phe Pro Lys Arg Pro Ala Leu Glu
 465 470 475 480
 Pro Val Arg Ser Ser Leu Arg Leu Leu Asn Ala Ser Ala Tyr Arg Leu
 485 490 495
 Gln Ser Glu Cys Arg Lys Thr Val Pro Pro Glu Pro Gly Ala Pro Val
 500 505 510
 Asp Phe Gln Leu Leu Thr Gln Gln Val Ile Gln Cys Ala Tyr Asp Ile
 515 520 525
 Ala Lys Ala Ala Lys Gln Leu Val Thr Ile Thr Thr Arg Glu Lys Lys
 530 535 540
 Gln
 545

<210> 1140
 <211> 621
 <212> Amino acid
 <213> Homo sapiens

<400> 1140
 Arg Tyr Leu Ser Tyr Gly Ser Gly Pro Lys Arg Phe Pro Leu Val Asp
 1 5 10 15
 Val Leu Gln Tyr Ala Leu Glu Phe Ala Ser Ser Lys Pro Val Cys Thr
 20 25 30
 Ser Pro Val Asp Asp Ile Asp Ala Ser Ser Pro Pro Ser Gly Ser Ile
 35 40 45
 Pro Ser Gln Thr Leu Pro Ser Thr Thr Glu Gln Gln Gly Ala Leu Ser
 50 55 60
 Ser Glu Leu Pro Ser Thr Ser Pro Ser Ser Val Ala Ala Ile Ser Ser
 65 70 75 80
 Arg Ser Val Ile His Lys Pro Phe Thr Gln Ser Arg Ile Pro Pro Asp
 85 90 95
 Leu Pro Met His Pro Ala Pro Arg His Ile Thr Glu Glu Glu Leu Ser
 100 105 110
 Val Leu Glu Ser Cys Leu His Arg Trp Arg Thr Glu Ile Glu Asn Asp
 115 120 125
 Thr Arg Asp Leu Gln Glu Ser Ile Ser Arg Ile His Arg Thr Ile Glu
 130 135 140
 Leu Met Tyr Ser Asp Lys Ser Met Ile Gln Val Pro Tyr Arg Leu His
 145 150 155 160
 Ala Val Leu Val His Glu Gly Gln Ala Asn Ala Gly His Tyr Trp Ala

```
<210> 1141
<211> 154
<212> Amino acid
<213> Homo sapiens
```

<400> 1141

```

Ala Gln Val Tyr Val Arg Met Asp Ser Phe Asp Glu Asp Leu Ala Arg
 1          5          10          15
Pro Ser Gly Leu Leu Ala Gln Glu Arg Lys Leu Cys Arg Asp Leu Val
          20          25          30
His Ser Asn Lys Lys Glu Gln Glu Phe Arg Ser Ile Phe Gln His Ile
          35          40          45
Gln Ser Ala Gln Ser Gln Arg Ser Pro Ser Glu Leu Phe Ala Gln His
 50          55          60
Met Val Pro Ile Val His His Val Lys Glu His His Phe Gly Ser Ser
 65          70          75          80
Gly Met Thr Leu His Glu Arg Phe Thr Lys Tyr Leu Lys Arg Gly Thr
          85          90          95
Glu Gln Glu Ala Ala Lys Asn Lys Lys Ser Pro Glu Ile His Arg Arg
          100          105          110
Ile Asp Ile Ser Pro Ser Thr Phe Arg Lys His Gly Leu Ala His Asp
          115          120          125
Glu Met Lys Ser Pro Arg Glu Pro Gly Tyr Lys Asp Gly His Asn Ser
          130          135          140
Lys Asn Glu Leu Gln Arg Val Asn Phe Tyr
145          150          154

```

<210> 1142

<211> 121

<212>Amino acid

<213> Homo sapiens

<400> 1142

```

Thr Tyr Thr Phe Cys Phe Ser Leu Met Ile Ile Leu Leu Thr Ile Ile
 1          5          10          15
Gln Gly Leu Ile Leu Glu Ala Phe Gly Glu Leu Arg Asp Gln Leu Asp
          20          25          30
Gln Val Lys Glu Asp Met Glu Thr Lys Cys Phe Ile Cys Gly Ile Gly
          35          40          45
Asn Asp Tyr Phe Asp Thr Val Pro His Gly Phe Glu Thr His Thr Leu
 50          55          60
Gln Glu His Asn Leu Ala Asn Tyr Leu Phe Phe Leu Met Tyr Leu Ile
 65          70          75          80
Asn Lys Asp Glu Thr Glu His Thr Gly Gln Glu Ser Tyr Val Trp Lys
          85          90          95
Met Tyr Gln Glu Arg Cys Trp Glu Phe Phe Pro Ala Gly Asp Cys Phe
          100          105          110
Arg Lys Gln Tyr Glu Asp Gln Leu Asn
          115          120 121

```

<210> 1143

<211> 851

<212>Amino acid

<213> Homo sapiens

<400> 1143

Phe	Arg	Arg	Lys	Gly	Gly	Gly	Gly	Pro	Lys	Asp	Phe	Gly	Ala	Gly	Leu
1				5					10					15	
Lys	Tyr	Asn	Ser	Arg	His	Glu	Lys	Val	Asn	Gly	Leu	Glu	Glu	Gly	Val
			20					25					30		
Glu	Phe	Leu	Pro	Val	Asn	Asn	Val	Lys	Lys	Val	Glu	Lys	His	Gly	Pro
		35					40					45			
Gly	Arg	Trp	Val	Val	Leu	Ala	Ala	Val	Leu	Ile	Gly	Leu	Leu	Leu	Val
	50					55					60				
Leu	Leu	Gly	Ile	Gly	Phe	Leu	Val	Trp	His	Leu	Gln	Tyr	Arg	Asp	Val
	65				70					75				80	
Arg	Val	Gln	Lys	Val	Phe	Asn	Gly	Tyr	Met	Arg	Ile	Thr	Asn	Glu	Asn
				85					90					95	
Phe	Val	Asp	Ala	Tyr	Glu	Asn	Ser	Asn	Ser	Thr	Glu	Phe	Val	Ser	Leu
			100					105					110		
Ala	Ser	Lys	Val	Lys	Asp	Ala	Leu	Lys	Leu	Leu	Tyr	Ser	Gly	Val	Pro
	115						120					125			
Phe	Leu	Gly	Pro	Tyr	His	Lys	Glu	Ser	Ala	Val	Thr	Ala	Phe	Ser	Glu
	130					135					140				
Gly	Ser	Val	Ile	Ala	Tyr	Tyr	Trp	Ser	Glu	Phe	Ser	Ile	Pro	Gln	His
	145				150					155				160	
Leu	Val	Glu	Glu	Ala	Glu	Arg	Val	Met	Ala	Glu	Glu	Arg	Val	Val	Met
				165					170					175	
Leu	Pro	Pro	Arg	Ala	Arg	Ser	Leu	Lys	Ser	Phe	Val	Val	Thr	Ser	Val
			180					185					190		
Val	Ala	Phe	Pro	Thr	Asp	Ser	Lys	Thr	Val	Gln	Arg	Thr	Gln	Asp	Asn
	195						200					205			
Ser	Cys	Ser	Phe	Gly	Leu	His	Ala	Arg	Gly	Val	Glu	Leu	Met	Arg	Phe
	210					215					220				
Thr	Thr	Pro	Gly	Phe	Pro	Asp	Ser	Pro	Tyr	Pro	Ala	His	Ala	Arg	Cys
	225				230					235				240	
Gln	Trp	Ala	Leu	Arg	Gly	Asp	Ala	Asp	Ser	Val	Leu	Ser	Leu	Thr	Phe
				245					250					255	
Arg	Ser	Phe	Asp	Leu	Ala	Ser	Cys	Asp	Glu	Arg	Gly	Arg	His	Leu	Val
			260					265					270		
Thr	Val	Tyr	Asn	Thr	Leu	Ser	Pro	Met	Glu	Pro	His	Ala	Leu	Val	Gln
		275					280					285			
Leu	Cys	Gly	Thr	Tyr	Pro	Pro	Ser	Tyr	Asn	Leu	Thr	Phe	His	Ser	Ser
	290					295					300				
Gln	Asn	Val	Leu	Leu	Ile	Thr	Leu	Ile	Thr	Asn	Thr	Glu	Arg	Arg	His
	305				310					315					320
Pro	Gly	Phe	Glu	Ala	Thr	Phe	Phe	Gln	Leu	Pro	Arg	Met	Ser	Ser	Cys
				325					330					335	
Gly	Gly	Arg	Leu	Arg	Lys	Ala	Gln	Gly	Thr	Phe	Asn	Ser	Pro	Tyr	Tyr
			340					345					350		
Pro	Gly	His	Tyr	Pro	Pro	Asn	Ile	Asp	Cys	Thr	Trp	Asn	Ile	Glu	Val
		355					360					365			
Pro	Asn	Asn	Gln	His	Val	Lys	Val	Arg	Phe	Lys	Phe	Phe	Tyr	Leu	Leu
	370					375					380				
Glu	Pro	Gly	Val	Pro	Ala	Gly	Thr	Cys	Pro	Lys	Asp	Tyr	Val	Glu	Ile
	385				390					395				400	
Asn	Gly	Glu	Lys	Tyr	Cys	Gly	Glu	Arg	Ser	Gln	Phe	Val	Val	Thr	Ser
				405					410					415	
Asn	Ser	Asn	Lys	Ile	Thr	Val	Arg	Phe	His	Ser	Asp	Gln	Ser	Tyr	Thr
			420					425					430		
Asp	Thr	Gly	Phe	Leu	Ala	Glu	Tyr	Leu	Ser	Tyr	Asp	Ser	Ser	Asp	Pro
		435					440					445			
Cys	Pro	Gly	Gln	Phe	Thr	Cys	Arg	Thr	Gly	Arg	Cys	Ile	Arg	Lys	Glu
	450					455					460				
Leu	Arg	Cys	Asp	Gly	Trp	Ala	Asp	Cys	Thr	Asp	His	Ser	Asp	Glu	Leu
	465				470					475				480	
Asn	Cys	Ser	Cys	Asp	Ala	Gly	His	Gln	Phe	Thr	Cys	Lys	Asn	Lys	Phe
				485					490					495	
Cys	Lys	Pro	Leu	Phe	Trp	Val	Cys	Asp	Ser	Leu	Asn	Asp	Cys	Gly	Asp

```

      500      505      510
Asn Ser Asp Glu Gln Gly Cys Ser Cys Pro Ala Gln Thr Phe Arg Cys
      515      520      525
Ser Asn Gly Lys Cys Leu Ser Lys Ser Gln Gln Cys Asn Gly Lys Asp
      530      535      540
Asp Cys Gly Asp Gly Ser Asp Glu Ala Ser Cys Pro Lys Val Asn Val
545      550      555      560
Val Thr Cys Thr Lys His Thr Tyr Arg Cys Leu Asn Gly Leu Cys Leu
      565      570      575
Ser Lys Gly Asn Pro Glu Cys Asp Gly Lys Glu Asp Cys Ser Asp Gly
      580      585      590
Ser Asp Glu Lys Asp Cys Asp Cys Gly Leu Arg Ser Phe Thr Arg Gln
      595      600      605
Ala Arg Val Val Gly Gly Thr Asp Ala Asp Glu Gly Glu Trp Pro Trp
610      615      620
Gln Val Ser Leu His Ala Leu Gly Gln Gly His Ile Cys Gly Ala Ser
625      630      635      640
Leu Ile Ser Pro Asn Trp Leu Val Ser Ala Ala His Cys Tyr Ile Asp
      645      650      655
Asp Arg Gly Phe Arg Tyr Ser Asp Pro Thr Gln Trp Thr Ala Phe Leu
      660      665      670
Gly Leu His Asp Gln Ser Gln Arg Ser Ala Pro Gly Val Gln Glu Arg
675      680      685
Arg Leu Lys Arg Ile Ile Ser His Pro Phe Phe Asn Asp Phe Thr Phe
690      695      700
Asp Tyr Asp Ile Ala Leu Leu Glu Leu Glu Lys Pro Ala Glu Tyr Ser
705      710      715      720
Ser Met Val Arg Pro Ile Cys Leu Pro Asp Ala Ser His Val Phe Pro
      725      730      735
Ala Gly Lys Ala Ile Trp Val Thr Gly Trp Gly His Thr Gln Tyr Gly
740      745      750
Gly Thr Gly Ala Leu Ile Leu Gln Lys Gly Glu Ile Arg Val Ile Asn
755      760      765
Gln Thr Thr Cys Glu Asn Leu Leu Pro Gln Gln Ile Thr Pro Arg Met
770      775      780
Met Cys Val Gly Phe Leu Ser Gly Gly Val Asp Ser Cys Gln Gly Asp
785      790      795      800
Ser Gly Gly Pro Leu Ser Ser Val Glu Ala Asp Gly Arg Ile Phe Gln
      805      810      815
Ala Gly Val Val Ser Trp Gly Asp Gly Cys Ala Gln Arg Asn Lys Pro
820      825      830
Gly Val Tyr Thr Arg Leu Pro Leu Phe Arg Asp Trp Ile Lys Glu Asn
835      840      845
Thr Gly Val
850 851

```

<210> 1144

<211> 346

<212>Amino acid

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(346)

<223> X = any amino acid or stop code

<400> 1144

```

Arg His Glu Glu Asp Leu Gly Asn Leu Trp Glu Asn Thr Arg Phe Thr
  1              5              10              15

```

```

Asp Cys Ser Phe Phe Val Arg Gly Gln Glu Phe Lys Ala His Lys Ser
      20      25      30
Val Leu Ala Ala Arg Ser Pro Val Phe Asn Ala Met Phe Glu His Glu
      35      40      45
Met Glu Glu Ser Lys Lys Asn Arg Val Glu Ile Asn Asp Leu Asp Pro
      50      55      60
Glu Val Phe Lys Glu Met Met Arg Phe Ile Tyr Thr Gly Arg Ala Pro
      65      70      75      80
Asn Leu Asp Lys Met Ala Asp Asn Leu Leu Ala Ala Ala Asp Lys Tyr
      85      90      95
Ala Leu Glu Arg Leu Lys Val Met Cys Glu Lys Ala Leu Cys Ser Asn
      100      105      110
Leu Ser Val Glu Asn Val Ala Asp Thr Leu Val Leu Ala Asp Leu His
      115      120      125
Ser Ala Glu Gln Leu Lys Ala Gln Ala Ile Asp Phe Ile Asn Arg Cys
      130      135      140
Ser Val Leu Arg Gln Leu Gly Cys Lys Asp Gly Lys Asn Trp Asn Ser
      145      150      155      160
Asn Gln Ala Thr Asp Ile Met Glu Thr Ser Gly Gly Lys Ser Met Ile
      165      170      175
Gln Ser His Pro His Leu Val Ala Glu Ala Phe Arg Ala Leu Ala Ser
      180      185      190
Ala Gln Gly Pro Gln Phe Gly Ile Pro Arg Lys Arg Leu Lys Gln Ser
      195      200      205
Xaa Asn Leu Gly Asn Leu Trp Glu Asn Thr Arg Phe Thr Asp Cys Ser
      210      215      220
Phe Phe Val Arg Gly Gln Glu Phe Lys Ala His Lys Ser Val Leu Ala
      225      230      235      240
Ala Arg Ser Pro Val Phe Asn Ala Met Phe Glu His Glu Met Glu Glu
      245      250      255
Ser Lys Lys Asn Arg Val Glu Ile Asn Asp Leu Asp Pro Glu Val Phe
      260      265      270
Lys Glu Met Met Arg Phe Ile Tyr Thr Gly Arg Ala Pro Asn Leu Asp
      275      280      285
Lys Met Ala Asp Asn Leu Leu Ala Ala Ala Asp Lys Tyr Ala Leu Glu
      290      295      300
Arg Leu Lys Val Met Cys Glu Lys Ala Leu Cys Ser Asn Leu Ser Val
      305      310      315      320
Glu Asn Val Ala Asp Thr Leu Val Leu Ala Asp Leu His Ser Gly Arg
      325      330      335
Thr Val Glu Ser Thr Ser His Arg Leu Tyr
      340      345      346

```

<210> 1145

<211> 339

<212> Amino acid

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(339)

<223> X = any amino acid or stop code

<400> 1145

```

Gln Arg Gly Gly Ile Pro Gly Lys Phe Gln Glu Asp Ser Gly Ser Val
  1      5      10      15
Asp Trp Ala Leu Gly Pro Phe Trp Gly Ile Phe Gln Ala Asp Phe Gly
      20      25      30
Cys Met Arg Phe Tyr Leu Ser Ala Gln Thr Ser Asp Pro Val Leu Arg

```

```

      35      40      45
Met Xaa Trp Gly Pro Ser Pro Ile Ser His Pro Thr Ser Leu Cys Pro
  50      55      60
Gly Gly Gly Gly Ala Gly Gln Thr Thr Gly Ser Leu Cys Leu Gly Gln
  65      70      75      80
Gln Cys Cys Pro Leu Ser Cys Pro Asn Ile Pro Ser Arg His Lys Arg
      85      90      95
Trp Arg Leu Xaa Ala Ala Leu Val Ala Gly Ser Arg Gly Ser Cys Thr
  100      105      110
Leu Arg Ser Xaa Arg Xaa Arg Thr Pro Leu Pro Val Thr Arg Asn Leu
  115      120      125
Pro Arg Cys His Leu His Leu His Pro Thr Gly Asp Leu Arg Val His
  130      135      140
Val His Gln His Cys Leu Leu His Gly His Val Pro Pro Gly Ala Ala
  145      150      155      160
Leu Leu Gln Cys Gly Gly Cys Asp Leu Arg Gly Glu Ala Ala Gly Leu
      165      170      175
Leu Phe Leu Gly His Ala Cys Leu Arg Gly Ser Val Asn Leu Arg Arg
  180      185      190
Asp Gln Trp Leu Pro Val Pro Tyr Ser Arg Leu Cys Phe Ser Gly Ala
  195      200      205
Arg Glu Gly His Leu Pro Ser Leu Leu Ala Met Ile His Val Arg His
  210      215      220
Cys Thr Pro Ile Pro Ala Leu Leu Val Cys Pro Ile Lys Val Asn Leu
  225      230      235      240
Leu Ile Pro Val Ala Tyr Leu Val Phe Trp Ala Phe Leu Leu Val Phe
      245      250      255
Ser Phe Ile Ser Glu His Met Val Cys Gly Val Gly Val Ile Ile Ile
  260      265      270
Leu Thr Gly Val Pro Ile Phe Phe Leu Gly Val Phe Trp Arg Ser Lys
  275      280      285
Pro Lys Cys Val His Arg Leu Thr Glu Ser Met Thr His Trp Gly Gln
  290      295      300
Glu Leu Cys Phe Val Val Tyr Pro Gln Asp Ala Pro Glu Glu Glu Glu
  305      310      315      320
Asn Gly Pro Cys Pro Pro Ser Leu Leu Pro Ala Thr Asp Lys Pro Ser
      325      330      335
Lys Pro Gln
  339

```

<210> 1146

<211> 425

<212> Amino acid

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(425)

<223> X = any amino acid or stop code

<400> 1146

```

Ala Ala Ala Leu Val Ala Glu Tyr Leu Ala Leu Leu Glu Asp His Arg
  1      5      10      15
His Leu Pro Val Gly Cys Val Ser Phe Gln Asn Ile Ser Ser Asn Val
  20      25      30
Leu Glu Glu Ser Ala Ile Ser Asp Asp Ile Leu Ser Pro Asp Glu Glu
  35      40      45
Gly Phe Cys Ser Gly Lys His Phe Thr Glu Leu Gly Leu Val Gly Leu
  50      55      60

```

```

Leu Glu Gln Ala Ala Gly Tyr Phe Thr Met Gly Gly Leu Tyr Glu Ala
65          70          75          80
Val Asn Glu Val Tyr Lys Asn Leu Ile Pro Ile Leu Glu Ala His Arg
85          90          95
Asp Tyr Lys Lys Leu Ala Ala Val His Gly Lys Leu Gln Glu Ala Phe
100        105        110
Thr Lys Ile Met His Gln Ser Ser Gly Trp Glu Arg Val Phe Gly Thr
115        120        125
Tyr Phe Arg Val Gly Phe Tyr Gly Ala His Phe Gly Asp Leu Asp Glu
130        135        140
Gln Glu Phe Val Tyr Lys Glu Pro Ser Ile Thr Lys Leu Ala Glu Ile
145        150        155        160
Ser His Arg Leu Glu Glu Phe Tyr Thr Glu Arg Phe Gly Asp Asp Val
165        170        175
Val Glu Ile Ile Lys Asp Ser Asn Pro Val Asp Lys Ser Lys Leu Asp
180        185        190
Ser Gln Lys Ala Tyr Ile Gln Ile Thr Tyr Val Glu Pro Tyr Phe Asp
195        200        205
Thr Tyr Glu Leu Lys Asp Arg Val Thr Tyr Phe Asp Arg Asn Tyr Gly
210        215        220
Leu Arg Thr Phe Leu Phe Cys Thr Pro Phe Thr Pro Asp Gly Arg Ala
225        230        235        240
His Gly Glu Leu Pro Glu Gln His Lys Arg Lys Thr Leu Leu Ser Thr
245        250        255
Asp His Ala Phe Pro Tyr Ile Lys Thr Arg Ile Arg Val Cys His Arg
260        265        270
Glu Glu Thr Val Leu Thr Pro Val Glu Val Ala Ile Glu Asp Met Gln
275        280        285
Lys Lys Thr Arg Glu Leu Ala Phe Ala Thr Glu Gln Asp Pro Pro Asp
290        295        300
Ala Lys Met Leu Gln Met Val Leu Gln Gly Ser Val Gly Pro Thr Val
305        310        315        320
Asn Gln Gly Pro Leu Glu Val Ala Gln Val Phe Leu Ala Glu Ile Pro
325        330        335
Glu Asp Pro Lys Leu Phe Arg His His Asn Lys Leu Arg Leu Cys Phe
340        345        350
Lys Asp Phe Xaa Lys Lys Cys Glu Asp Ala Leu Arg Lys Asn Lys Ala
355        360        365
Leu Ile Gly Pro Asp Gln Lys Glu Tyr His Arg Glu Leu Glu Arg Asn
370        375        380
Tyr Cys Arg Leu Arg Glu Ala Leu Gln Pro Leu Leu Thr Gln Arg Leu
385        390        395        400
Pro Gln Leu Met Ala Pro Thr Pro Pro Gly Leu Arg Asn Ser Leu Asn
405        410        415
Arg Ala Ser Phe Arg Lys Ala Asp Leu
420        425

```

<210> 1147

<211> 198

<212>Amino acid

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(198)

<223> X = any amino acid or stop code

<400> 1147

```

Gly Glu Gly Gln Gln Trp Gln Ser Thr Pro Leu Ser Pro Leu Gln Pro

```

1	5	10	15
Thr Val Ala Asp Phe Leu Asn Leu Ala Trp Trp Thr Ser Ala Ala Ala			
20	25	30	
Trp Xaa Val Leu Ser Gly Arg Trp Val Glu Lys Val Leu Pro Gly Arg			
35	40	45	
Glu Gly Ser Glu Glu Lys Xaa Gly Met Ala Ser Ser Ser Ala Asp His			
50	55	60	
Leu His Ser Ala Pro Arg Ala Leu Gln Ser Leu Phe Gln Gln Leu Leu			
65	70	75	80
Tyr Gly Leu Ile Tyr His Ser Trp Phe Gln Ala Gly Arg Xaa Gly Phe			
85	90	95	
Gly Gly Ala Ser Ser Ser Pro Gly Pro Gln Ser Glu Leu Arg Arg Leu			
100	105	110	
His Gly Glu Gly Gly Val Tyr Asp Xaa Gly Arg Pro Glu Thr Leu Pro			
115	120	125	
Gly Ser Val Gly Gly Ala Glu Ala Leu Trp Ala Leu Ala Asp Pro Ala			
130	135	140	
Glu Ala Glu Gly Ser Pro Glu Thr Arg Glu Ser Ser Cys Val Met Lys			
145	150	155	160
Gln Thr Gln Tyr Tyr Phe Gly Ser Val Asn Ala Ser Tyr Asn Ala Ile			
165	170	175	
Ile Asp Cys Gly Asn Cys Ser Arg Cys Trp Gln Trp Gly Gly Thr Arg			
180	185	190	
Gly Gln Gly Arg Asn Leu			
195	198		

<210> 1148

<211> 317

<212> Amino acid

<213> Homo sapiens

<400> 1148

Val Ala Gly Ile Pro Ala Cys Phe Asp Asn Phe Thr Glu Ala Leu Ala			
1	5	10	15
Glu Thr Ala Cys Arg Gln Met Gly Tyr Ser Ser Lys Pro Thr Phe Arg			
20	25	30	
Ala Val Glu Ile Gly Pro Asp Gln Asp Leu Asp Val Val Glu Ile Thr			
35	40	45	
Glu Asn Ser Gln Glu Leu Arg Met Arg Asn Ser Ser Gly Pro Cys Leu			
50	55	60	
Ser Gly Ser Leu Val Ser Leu His Cys Leu Ala Cys Gly Glu Ser Leu			
65	70	75	80
Lys Thr Pro Arg Val Val Gly Gly Glu Glu Ala Ser Val Asp Ser Trp			
85	90	95	
Pro Trp Gln Val Ser Ile Gln Tyr Asp Lys Gln His Val Cys Gly Gly			
100	105	110	
Ser Ile Leu Asp Pro His Trp Val Leu Thr Ala Ala His Cys Phe Arg			
115	120	125	
Lys His Thr Asp Val Phe Asn Trp Lys Val Arg Ala Gly Ser Asp Lys			
130	135	140	
Leu Gly Ser Phe Pro Ser Leu Ala Val Ala Lys Ile Ile Ile Ile Glu			
145	150	155	160
Phe Asn Pro Met Tyr Pro Lys Asp Asn Asp Ile Ala Leu Met Lys Leu			
165	170	175	
Gln Phe Pro Leu Thr Phe Ser Gly Thr Val Arg Pro Ile Cys Leu Pro			
180	185	190	
Phe Phe Asp Glu Glu Leu Thr Pro Ala Thr Pro Leu Trp Ile Ile Gly			
195	200	205	
Trp Gly Phe Thr Lys Gln Asn Gly Gly Lys Met Ser Asp Ile Leu Leu			

210	215	220
Gln Ala Ser Val	Gln Val Ile Asp Ser Thr Arg Cys Asn Ala Asp Asp	
225	230	235
Ala Tyr Gln Gly	Glu Val Thr Glu Lys Met Met Cys Ala Gly Ile Pro	240
	245	250
Glu Gly Gly Val	Asp Thr Cys Gln Gly Asp Ser Gly Gly Pro Leu Met	255
	260	265
Tyr Gln Ser Asp	Gln Trp His Val Val Gly Ile Val Ser Trp Gly Tyr	270
	275	280
Gly Cys Gly Gly	Pro Ser Thr Pro Gly Val Tyr Thr Lys Val Ser Ala	285
	290	295
Tyr Leu Asn Trp	Ile Tyr Asn Val Trp Lys Ala Glu Leu	300
305	310	315
		317

<210> 1149

<211> 320

<212> Amino acid

<213> Homo sapiens

<400> 1149

Thr Ile Ser Thr	Val Arg Trp Asn Ser Arg Ile Gly Met Val Leu Gly
1	5 10 15
Val Ala Ile Gln	Lys Arg Ala Val Pro Gly Leu Tyr Ala Phe Glu Glu
	20 25 30
Ala Tyr Ala Arg	Ala Asp Lys Glu Ala Pro Arg Pro Cys His Lys Gly
	35 40 45
Ser Trp Cys Ser	Ser Asn Gln Leu Cys Arg Glu Cys Gln Ala Phe Met
	50 55 60
Ala His Thr Met	Pro Lys Leu Lys Ala Phe Ser Met Ser Ser Ala Tyr
	65 70 75 80
Asn Ala Tyr Arg	Ala Val Tyr Ala Val Ala His Gly Leu His Gln Leu
	85 90 95
Leu Gly Cys Ala	Ser Gly Ala Cys Ser Arg Gly Arg Val Tyr Pro Trp
	100 105 110
Gln Leu Leu Glu	Gln Ile His Lys Val His Phe Leu Leu His Lys Asp
	115 120 125
Thr Val Ala Phe	Asn Asp Asn Arg Asp Pro Leu Ser Ser Tyr Asn Ile
	130 135 140
Ile Ala Trp Asp	Trp Asn Gly Pro Lys Trp Thr Phe Thr Val Leu Gly
	145 150 155 160
Ser Ser Thr Trp	Ser Pro Val Gln Leu Asn Ile Asn Glu Thr Lys Ile
	165 170 175
Gln Trp His Gly	Lys Asp Asn Gln Val Pro Lys Ser Val Cys Ser Ser
	180 185 190
Asp Cys Leu Glu	Gly His Gln Arg Val Val Thr Gly Phe His His Cys
	195 200 205
Cys Phe Glu Cys	Val Pro Cys Gly Ala Gly Thr Phe Leu Asn Lys Ser
	210 215 220
Ser Tyr Leu Gly	Lys Asp Leu Pro Glu Asn Tyr Asn Glu Ala Lys Cys
	225 230 235 240
Val Thr Phe Ser	Leu Leu Phe Asn Phe Val Ser Trp Ile Ala Phe Phe
	245 250 255
Thr Thr Ala Ser	Val Tyr Asp Gly Lys Tyr Leu Pro Ala Ala Asn Met
	260 265 270
Met Ala Gly Leu	Ser Ser Leu Ser Ser Gly Phe Gly Gly Tyr Phe Leu
	275 280 285
Pro Lys Cys Tyr	Val Ile Leu Cys Arg Pro Asp Leu Asn Ser Thr Glu
	290 295 300
His Phe Gln Ala	Ser Ile Gln Asp Tyr Thr Arg Arg Cys Gly Ser Thr

305

310

315

320

<210> 1150
 <211> 458
 <212> Amino acid
 <213> Homo sapiens

<400> 1150
 Val Ala Arg Gly Ala Phe His Pro Lys Met Gly Pro Ser Phe Pro Ser
 1 5 10 15
 Pro Lys Pro Gly Ser Glu Arg Leu Ser Phe Val Ser Ala Lys Gln Ser
 20 25 30
 Thr Gly Gln Asp Thr Glu Ala Glu Leu Gln Asp Ala Thr Leu Ala Leu
 35 40 45
 His Gly Leu Thr Val Glu Asp Glu Gly Asn Tyr Thr Cys Glu Phe Ala
 50 55 60
 Thr Phe Pro Lys Gly Ser Val Arg Gly Met Thr Trp Leu Arg Val Ile
 65 70 75 80
 Ala Lys Pro Lys Asn Gln Ala Glu Ala Gln Lys Val Thr Phe Ser Gln
 85 90 95
 Asp Pro Thr Thr Val Ala Leu Cys Ile Ser Lys Glu Gly Arg Pro Pro
 100 105 110
 Ala Arg Ile Ser Trp Leu Ser Ser Leu Asp Trp Glu Ala Lys Glu Thr
 115 120 125
 Gln Val Ser Gly Thr Leu Ala Gly Thr Val Thr Val Thr Ser Arg Phe
 130 135 140
 Thr Leu Val Pro Ser Gly Arg Ala Asp Gly Val Thr Val Thr Cys Lys
 145 150 155 160
 Val Glu His Glu Ser Phe Glu Glu Pro Ala Leu Ile Pro Val Thr Leu
 165 170 175
 Ser Val Arg Tyr Pro Pro Glu Val Ser Ile Ser Gly Tyr Asp Asp Asn
 180 185 190
 Trp Tyr Leu Gly Arg Thr Asp Ala Thr Leu Ser Cys Asp Val Arg Ser
 195 200 205
 Asn Pro Glu Pro Thr Gly Tyr Asp Trp Ser Thr Thr Ser Gly Thr Phe
 210 215 220
 Pro Thr Ser Ala Val Ala Gln Gly Ser Gln Leu Val Ile His Ala Val
 225 230 235 240
 Asp Ser Leu Phe Asn Thr Thr Phe Val Cys Thr Val Thr Asn Ala Val
 245 250 255
 Gly Met Gly Arg Ala Glu Gln Val Ile Phe Val Arg Glu Thr Pro Asn
 260 265 270
 Thr Ala Gly Ala Gly Ala Thr Gly Gly Ile Ile Gly Gly Ile Ile Ala
 275 280 285
 Ala Ile Ile Ala Thr Ala Asp Ala Thr Gly Ile Leu Ile Cys Arg Gln
 290 295 300
 Gln Arg Lys Glu Gln Thr Leu Gln Gly Ala Glu Glu Asp Glu Asp Leu
 305 310 315 320
 Glu Gly Pro Pro Ser Tyr Lys Pro Pro Thr Pro Lys Ala Lys Leu Glu
 325 330 335
 Ala Gln Glu Met Pro Ser Gln Leu Phe Thr Leu Gly Ala Ser Glu His
 340 345 350
 Ser Pro Leu Lys Thr Pro Tyr Phe Asp Ala Gly Ala Ser Cys Thr Glu
 355 360 365
 Gln Glu Met Pro Arg Tyr His Glu Leu Pro Thr Leu Glu Glu Arg Ser
 370 375 380
 Gly Pro Leu His Pro Gly Ala Thr Ser Leu Gly Ser Pro Ile Pro Val

```
<210> 1151
<211> 608
<212> Amino acid
<213> Homo sapiens
```

680

340										345					350					
Gln	Arg	Gln	Phe	Ser	Asp	Lys	Arg	Arg	Leu	Glu	Ala	Arg	Leu	Gln	Gly					
355										360					365					
Met	Val	Thr	Glu	Thr	Thr	Met	Lys	Trp	Glu	Lys	Glu	Cys	Glu	Arg	Arg					
370										375					380					
Val	Ala	Ala	Lys	Gln	Leu	Glu	Met	Gln	Asn	Lys	Leu	Trp	Val	Lys	Asp					
385										390					395					
Glu	Lys	Leu	Lys	Gln	Leu	Lys	Ala	Ile	Val	Thr	Glu	Pro	Lys	Thr	Glu					
405										410					415					
Lys	Pro	Glu	Arg	Pro	Ser	Arg	Glu	Arg	Asp	Arg	Glu	Lys	Val	Thr	Gln					
420										425					430					
Arg	Ser	Val	Ser	Pro	Ser	Pro	Val	Pro	Leu	Leu	Phe	Gln	Pro	Asp	Gln					
435										440					445					
Asn	Ala	Pro	Pro	Ile	Arg	Leu	Arg	His	Arg	Arg	Ser	Arg	Ser	Ala	Gly					
450										455					460					
Asp	Arg	Trp	Val	Asp	His	Lys	Pro	Ala	Ser	Asn	Met	Gln	Thr	Glu	Thr					
465										470					475					
Val	Met	Gln	Pro	His	Val	Pro	His	Ala	Ile	Thr	Val	Ser	Val	Ala	Asn					
485										490					495					
Glu	Lys	Ala	Leu	Ala	Lys	Cys	Glu	Lys	Tyr	Met	Leu	Thr	His	Gln	Glu					
500										505					510					
Leu	Ala	Ser	Asp	Gly	Glu	Ile	Glu	Thr	Lys	Leu	Ile	Lys	Gly	Asp	Ile					
515										520					525					
Tyr	Lys	Thr	Arg	Gly	Gly	Gly	Gln	Ser	Val	Gln	Phe	Thr	Asp	Ile	Glu					
530										535					540					
Thr	Leu	Lys	Gln	Glu	Ser	Pro	Asn	Gly	Ser	Arg	Lys	Arg	Arg	Ser	Ser					
545										550					555					
Thr	Val	Ala	Pro	Ala	Gln	Pro	Asp	Gly	Ala	Glu	Ser	Glu	Trp	Thr	Asp					
565										570					575					
Val	Glu	Thr	Arg	Cys	Ser	Val	Ala	Val	Glu	Met	Arg	Ala	Gly	Ser	Gln					
580										585					590					
Leu	Gly	Pro	Gly	Tyr	Gln	His	His	Ala	Gln	Pro	Lys	Arg	Lys	Lys	Pro					
595										600					605					
															608					

<210> 1152

<211> 111

<212> Amino acid

<213> Homo sapiens

<400> 1152

Pro	Phe	Ser	Ser	Ser	Ser	Val	Ser	Ser	Lys	Gly	Ser	Asp	Pro	Phe	Gly					
1				5					10					15						
Thr	Leu	Asp	Pro	Phe	Gly	Ser	Gly	Ser	Phe	Asn	Ser	Ala	Glu	Gly	Phe					
20										25					30					
Ala	Asp	Phe	Ser	Gln	Met	Ser	Lys	Gly	Lys	Ser	Thr	Pro	Val	Ser	Gln					
35										40					45					
Leu	Gly	Ser	Ala	Asp	Phe	Pro	Glu	Ala	Pro	Asp	Pro	Phe	Gln	Pro	Leu					
50										55					60					
Gly	Ala	Asp	Ser	Gly	Asp	Pro	Phe	Gln	Ser	Lys	Lys	Gly	Phe	Gly	Asp					
65										70					75					
Pro	Phe	Ser	Gly	Lys	Asp	Pro	Phe	Val	Pro	Ser	Ser	Ala	Ala	Lys	Pro					
85										90					95					
Ser	Lys	Ala	Ser	Ala	Ser	Gly	Phe	Ala	Asp	Phe	Thr	Ser	Val	Ser						
100										105					110					
															111					

<210> 1153

<211> 444
 <212> Amino acid
 <213> Homo sapiens

<400> 1153
 Met Ser Leu Met Val Val Ser Met Ala Cys Val Gly Leu Phe Leu Val
 1 5 10 15
 Gln Arg Ala Gly Pro His Met Gly Gly Gln Asp Lys Pro Phe Leu Ser
 20 25 30
 Ala Trp Pro Ser Ala Val Val Pro Arg Gly Gly His Val Thr Leu Arg
 35 40 45
 Cys His Tyr Arg His Arg Phe Asn Asn Phe Met Leu Tyr Lys Glu Asp
 50 55 60
 Arg Ile His Ile Pro Ile Phe His Gly Arg Ile Phe Gln Glu Ser Phe
 65 70 75 80
 Asn Met Ser Pro Val Thr Thr Ala His Ala Gly Asn Tyr Thr Cys Arg
 85 90 95
 Gly Ser His Pro His Ser Pro Thr Gly Trp Ser Ala Pro Ser Asn Pro
 100 105 110
 Val Val Ile Met Val Thr Gly Asn His Arg Lys Pro Ser Leu Leu Ala
 115 120 125
 His Pro Gly Pro Leu Val Lys Ser Gly Glu Arg Val Ile Leu Gln Cys
 130 135 140
 Trp Ser Asp Ile Met Phe Glu His Phe Phe Leu His Lys Glu Gly Ile
 145 150 155 160
 Ser Lys Asp Pro Ser Arg Leu Val Gly Gln Ile His Asp Gly Val Ser
 165 170 175
 Lys Ala Asn Phe Ser Ile Gly Pro Met Met Gln Asp Leu Ala Gly Thr
 180 185 190
 Tyr Arg Cys Tyr Gly Ser Val Thr His Ser Pro Tyr Gln Leu Ser Ala
 195 200 205
 Pro Ser Asp Pro Leu Asp Ile Val Ile Thr Gly Leu Tyr Glu Lys Pro
 210 215 220
 Ser Leu Ser Ala Gln Pro Gly Pro Thr Val Leu Ala Gly Glu Ser Val
 225 230 235 240
 Thr Leu Ser Cys Ser Ser Arg Ser Ser Tyr Asp Met Tyr His Leu Ser
 245 250 255
 Arg Glu Gly Glu Ala His Glu Arg Arg Phe Ser Ala Gly Pro Lys Val
 260 265 270
 Asn Gly Thr Phe Gln Ala Asp Phe Pro Leu Gly Pro Ala Thr His Gly
 275 280 285
 Gly Thr Tyr Arg Cys Phe Gly Ser Phe Arg Asp Ser Pro Tyr Glu Trp
 290 295 300
 Ser Asn Ser Ser Asp Pro Leu Leu Val Ser Val Thr Gly Asn Pro Ser
 305 310 315 320
 Asn Ser Trp Pro Ser Pro Thr Glu Pro Ser Ser Glu Thr Gly Asn Pro
 325 330 335
 Arg His Leu His Val Leu Ile Gly Thr Ser Val Val Ile Ile Leu Phe
 340 345 350
 Ile Leu Leu Leu Phe Phe Leu Leu His Arg Trp Cys Ser Asn Lys Lys
 355 360 365
 Asn Ala Ala Val Met Asp Gln Glu Ser Ala Gly Asn Arg Thr Ala Asn
 370 375 380
 Ser Glu Asp Ser Asp Glu Gln Asp Pro Gln Glu Val Thr Tyr Thr Gln
 385 390 395 400
 Leu Asn His Cys Val Phe Thr Gln Arg Lys Ile Thr Arg Pro Ser Gln
 405 410 415
 Arg Pro Lys Thr Pro Pro Thr Asp Ile Ile Val Tyr Thr Glu Leu Pro
 420 425 430
 Asn Ala Glu Ser Arg Ser Lys Val Val Ser Cys Pro

435

440

444

<210> 1154
 <211> 522
 <212> Amino acid
 <213> Homo sapiens

<400> 1154

```

Met Ser Leu Arg Val His Thr Leu Pro Thr Leu Leu Gly Ala Val Val
 1          5          10          15
Arg Pro Gly Cys Arg Glu Leu Leu Cys Leu Leu Met Ile Thr Val Thr
          20          25          30
Val Gly Pro Gly Ala Ser Gly Val Cys Pro Thr Ala Cys Ile Cys Ala
          35          40          45
Thr Asp Ile Val Ser Cys Thr Asn Lys Asn Leu Ser Lys Val Pro Gly
          50          55          60
Asn Leu Phe Arg Leu Ile Lys Arg Leu Asp Leu Ser Tyr Asn Arg Ile
          65          70          75          80
Gly Leu Leu Asp Ser Glu Trp Ile Pro Val Ser Phe Ala Lys Leu Asn
          85          90          95
Thr Leu Ile Leu Arg His Asn Asn Ile Thr Ser Ile Ser Thr Gly Ser
          100          105          110
Phe Ser Thr Thr Pro Asn Leu Lys Cys Leu Asp Leu Ser Ser Asn Lys
          115          120          125
Leu Lys Thr Val Lys Asn Ala Val Phe Gln Glu Leu Lys Val Leu Glu
          130          135          140
Val Leu Leu Leu Tyr Asn Asn His Ile Ser Tyr Leu Asp Pro Ser Ala
          145          150          155          160
Phe Gly Gly Leu Ser Gln Leu Gln Lys Leu Tyr Leu Ser Gly Asn Phe
          165          170          175
Leu Thr Gln Phe Pro Met Asp Leu Tyr Val Gly Arg Phe Lys Leu Ala
          180          185          190
Glu Leu Met Phe Leu Asp Val Ser Tyr Asn Arg Ile Pro Ser Met Pro
          195          200          205
Met His His Ile Asn Leu Val Pro Gly Lys Gln Leu Arg Gly Ile Tyr
          210          215          220
Leu His Gly Asn Pro Phe Val Cys Asp Cys Ser Leu Val Ser Leu Leu
          225          230          235          240
Val Phe Trp Tyr Arg Arg His Phe Ser Ser Val Met Asp Phe Lys Asn
          245          250          255
Asp Tyr Thr Cys Arg Leu Trp Ser Asp Ser Arg His Ser Arg Gln Val
          260          265          270
Leu Leu Leu Gln Asp Ser Phe Met Asn Cys Ser Asp Ser Ile Ile Asn
          275          280          285
Gly Ser Phe Arg Ala Leu Gly Phe Ile His Glu Ala Gln Val Gly Glu
          290          295          300
Arg Leu Met Val His Cys Asp Ser Lys Thr Gly Asn Ala Asn Thr Asp
          305          310          315          320
Phe Ile Trp Val Gly Pro Asp Asn Arg Leu Leu Glu Pro Asp Lys Glu
          325          330          335
Met Glu Asn Phe Tyr Val Phe His Asn Gly Ser Leu Val Ile Glu Ser
          340          345          350
Pro Arg Phe Glu Asp Ala Gly Val Tyr Ser Cys Ile Ala Met Asn Lys
          355          360          365
Gln Arg Leu Leu Asn Glu Thr Val Asp Val Thr Ile Asn Val Ser Asn
          370          375          380
Phe Thr Val Ser Arg Ser His Ala His Glu Ala Phe Asn Thr Ala Phe
          385          390          395          400
Thr Thr Leu Ala Ala Cys Val Ala Ser Ile Val Leu Val Leu Leu Tyr

```

```

          405          410          415
Leu Tyr Leu Thr Pro Cys Pro Cys Lys Cys Lys Thr Lys Arg Gln Lys
          420          425          430
Asn Met Leu His Gln Ser Asn Ala His Ser Ser Ile Leu Ser Pro Gly
          435          440          445
Pro Ala Ser Asp Ala Ser Ala Asp Glu Arg Lys Ala Gly Ala Gly Lys
          450          455          460
Arg Val Val Phe Leu Glu Pro Leu Lys Asp Thr Ala Ala Gly Gln Asn
          465          470          475
Gly Lys Val Arg Leu Phe Pro Ser Glu Ala Val Ile Ala Glu Gly Ile
          485          490          495
Leu Lys Ser Thr Arg Gly Lys Ser Asp Ser Asp Ser Val Asn Ser Val
          500          505          510
Phe Ser Asp Thr Pro Phe Val Ala Ser Thr
          515          520          522

```

```

<210> 1155
<211> 642
<212> Amino acid
<213> Homo sapiens

```

```

<400> 1155
Ala Ser Asp Phe Ile Arg Ser Leu Asp His Cys Gly Tyr Leu Ser Leu
 1          5          10          15
Glu Gly Val Phe Ser His Lys Phe Asp Phe Glu Leu Gln Asp Val Ser
          20          25          30
Ser Val Asn Glu Asp Val Leu Leu Thr Thr Gly Leu Leu Cys Lys Tyr
          35          40          45
Thr Ala Gln Arg Phe Lys Pro Lys Tyr Lys Phe Phe His Lys Ser Phe
          50          55          60
Gln Glu Tyr Thr Ala Gly Arg Arg Leu Ser Ser Leu Leu Thr Ser His
          65          70          75          80
Glu Pro Glu Glu Val Thr Lys Gly Asn Gly Tyr Leu Gln Lys Met Val
          85          90          95
Ser Ile Ser Asp Ile Thr Ser Thr Tyr Ser Ser Leu Leu Arg Tyr Thr
          100          105          110
Cys Gly Ser Ser Val Glu Ala Thr Arg Ala Val Met Lys His Leu Ala
          115          120          125
Ala Val Tyr Gln His Gly Cys Leu Leu Gly Leu Ser Ile Ala Lys Arg
          130          135          140
Pro Leu Trp Arg Gln Glu Ser Leu Gln Ser Val Lys Asn Thr Thr Glu
          145          150          155          160
Gln Glu Ile Leu Lys Ala Ile Asn Ile Asn Ser Phe Val Glu Cys Gly
          165          170          175
Ile His Leu Tyr Gln Glu Ser Thr Ser Lys Ser Ala Leu Ser Gln Glu
          180          185          190
Phe Glu Ala Phe Phe Gln Gly Lys Ser Leu Tyr Ile Asn Ser Gly Asn
          195          200          205
Ile Pro Asp Tyr Leu Phe Asp Phe Phe Glu His Leu Pro Asn Cys Ala
          210          215          220
Ser Ala Leu Asp Phe Ile Lys Leu Gly Phe Tyr Gly Gly Ala Met Ala
          225          230          235          240
Ser Trp Glu Lys Ala Ala Glu Asp Thr Gly Gly Ile His Met Glu Glu
          245          250          255
Ala Pro Glu Thr Tyr Ile Pro Ser Arg Ala Val Ser Leu Phe Phe Asn
          260          265          270
Trp Lys Gln Glu Phe Arg Thr Leu Glu Val Thr Leu Arg Asp Phe Ser
          275          280          285
Lys Leu Asn Lys Gln Asp Ile Arg Tyr Leu Gly Lys Ile Phe Ser Ser

```

```

      290              295              300
Ala Thr Ser Leu Arg Leu Gln Ile Lys Arg Cys Ala Gly Val Ala Gly
305              310              315              320
Ser Leu Ser Leu Val Leu Ser Thr Cys Lys Asn Ile Tyr Ser Leu Met
              325              330              335
Val Glu Ala Ser Pro Leu Thr Ile Glu Asp Glu Arg His Ile Thr Ser
              340              345              350
Val Thr Asn Leu Lys Thr Leu Ser Ile His Asp Leu Gln Asn Gln Arg
              355              360              365
Leu Pro Gly Gly Leu Thr Asp Ser Leu Gly Asn Leu Lys Asn Leu Thr
              370              375              380
Lys Leu Ile Met Asp Asn Ile Lys Met Asn Glu Glu Asp Ala Ile Lys
385              390              395              400
Leu Ala Glu Gly Leu Lys Asn Leu Lys Lys Met Cys Leu Phe His Leu
              405              410              415
Thr His Leu Ser Asp Ile Gly Glu Gly Met Asp Tyr Ile Val Lys Ser
              420              425              430
Leu Ser Ser Glu Pro Cys Asp Leu Glu Glu Ile Gln Leu Val Ser Cys
              435              440              445
Cys Leu Ser Ala Asn Ala Val Lys Ile Leu Ala Gln Asn Leu His Asn
              450              455              460
Leu Val Lys Leu Ser Ile Leu Asp Leu Ser Glu Asn Tyr Leu Glu Lys
465              470              475              480
Asp Gly Asn Glu Ala Leu His Glu Leu Ile Asp Arg Met Asn Val Leu
              485              490              495
Glu Gln Leu Thr Ala Leu Met Leu Pro Trp Gly Cys Asp Val Gln Gly
              500              505              510
Ser Leu Ser Ser Leu Leu Lys His Leu Glu Glu Val Pro Gln Leu Val
              515              520              525
Lys Leu Gly Leu Lys Asn Trp Arg Leu Thr Asp Thr Glu Ile Arg Ile
              530              535              540
Leu Gly Ala Phe Phe Gly Lys Asn Pro Leu Lys Asn Phe Gln Gln Leu
545              550              555              560
Asn Leu Ala Gly Asn Arg Val Ser Ser Asp Gly Trp Leu Ala Phe Met
              565              570              575
Gly Val Phe Glu Asn Leu Lys Gln Leu Val Phe Phe Asp Phe Ser Thr
              580              585              590
Lys Glu Phe Leu Pro Asp Pro Ala Leu Val Arg Lys Leu Ser Gln Val
              595              600              605
Leu Ser Lys Leu Thr Phe Leu Gln Glu Ala Arg Leu Val Gly Trp Gln
610              615              620
Phe Asp Asp Asp Asp Leu Ser Val Ile Thr Gly Ala Phe Lys Leu Val
625              630              635              640
Thr Ala
642

```

<210> 1156

<211> 125

<212>Amino acid

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(125)

<223> X = any amino acid or stop code

<400> 1156

```

Ala Ser Asp Arg Lys Val Ala Met Thr Cys Asp Cys Phe Trp Phe Arg
1              5              10              15

```

```

Thr Met Leu Asp Gln His Ala Ser Cys Met Glu Val Gly Thr Glu Arg
      20      25      30
Glu Arg Gln Ala Gly Gly Leu Val Met Phe Asp Pro Ser Gly Phe Pro
      35      40      45
Thr Gly Glu Lys Val Leu Gln Asp Asp Glu Phe Thr Cys Asp Leu Phe
      50      55      60
Arg Phe Leu Gln Leu Leu Cys Glu Gly His Asn Ser Gly Leu Xaa Val
      65      70      75      80
Pro Gly Thr Ser Asp Asp Thr Lys Ala Xaa Ile Met Phe Ser Ser Gln
      85      90      95
Xaa Xaa Gln Glu Pro Val Ser Ser Asn Tyr Ala Ser Phe Xaa Arg Gln
      100      105      110
Gln Ile Ile Leu Glu His Gly Ser Ala Leu Gly Ser Gly
      115      120      125

```

<210> 1157

<211> 91

<212>Amino acid

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(91)

<223> X = any amino acid or stop code

<400> 1157

```

Glu Ile Thr His Ile Val Gly Glu Thr Ala Ala Phe Leu Cys Pro Arg
  1      5      10      15
Leu Arg Leu Arg Arg Gly Gly Lys Asp Gly Ser Pro Lys Pro Gly Phe
      20      25      30
Leu Ala Ser Val Ile Pro Val Asp Arg Arg Pro Gly Glu Xaa Asp Ile
      35      40      45
Thr His Ile Val Gly Glu Thr Ala Ala Phe Leu Cys Pro Arg Leu Arg
      50      55      60
Leu Arg Arg Gly Gly Lys Asp Gly Ser Pro Lys Pro Gly Phe Leu Ala
      65      70      75      80
Ser Val Ile Pro Val Asp Arg Arg Pro Gly Glu
      85      90      91

```

<210> 1158

<211> 254

<212>Amino acid

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(254)

<223> X = any amino acid or stop code

<400> 1158

```

Ser Lys Phe Ile Phe Tyr Val Asp Ser Gln Ser Met Ile Phe Phe Phe
  1      5      10      15
Gln Thr Pro Thr Arg His Lys Val Leu Ile Met Glu Phe Cys Pro Cys
      20      25      30

```

Gly Ser Leu Tyr Thr Val Leu Glu Glu Pro Ser Asn Ala Tyr Gly Leu
 35 40 45
 Pro Glu Ser Glu Phe Leu Ile Val Leu Arg Asp Val Val Gly Gly Met
 50 55 60
 Asn His Leu Arg Glu Asn Gly Ile Val His Arg Asp Ile Lys Pro Gly
 65 70 75 80
 Asn Ile Met Arg Val Ile Gly Glu Asp Gly Gln Ser Val Tyr Lys Leu
 85 90 95
 Thr Asp Phe Gly Ala Ala Arg Glu Leu Glu Asp Asp Glu Gln Phe Val
 100 105 110
 Ser Leu Tyr Gly Thr Glu Glu Tyr Leu His Pro Asp Met Tyr Glu Arg
 115 120 125
 Ala Val Leu Arg Lys Asp His Gln Lys Lys Tyr Gly Ala Thr Val Asp
 130 135 140
 Leu Trp Ser Ile Gly Val Thr Phe Tyr Gln Gly Lys Pro Thr Gly Ser
 145 150 155 160
 Leu Ala Ile Xaa His Pro Phe Glu Gly Ala Ser Val Arg Asn Lys Ala
 165 170 175
 Ser Asp Gly Ile Lys Ile Ile Thr Gly Lys Gly Leu Leu Gly Ala Ile
 180 185 190
 Ser Gly Val Gln Lys Ser Lys Lys Asn Gly Pro Ile Asp Trp Glu Trp
 195 200 205
 Glu Asp Met Pro Val Ser Cys Ser Pro Ser Ser Gly Val Leu Arg Val
 210 215 220
 Pro Asn Leu Pro Pro Val Leu Ala Asn Ile Leu Glu Ser Arg Ser Arg
 225 230 235 240
 Lys Lys Cys Trp Gly Phe Xaa Pro Ser Phe Leu Gln Glu Asn
 245 250 254

<210> 1159

<211> 162

<212>Amino acid

<213> Homo sapiens

<400> 1159

Gly Ser Thr Ile Ser Cys Glu Arg Ser Leu Arg Ser Leu Trp Thr Ala
 1 5 10 15
 His Trp Ala Leu Pro Glu Met Asp Ser Arg Ile Pro Tyr Asp Asp Tyr
 20 25 30
 Pro Val Val Phe Leu Pro Ala Tyr Glu Asn Pro Pro Ala Trp Ile Pro
 35 40 45
 Pro His Glu Arg Val His His Pro Asp Tyr Asn Asn Glu Leu Thr Gln
 50 55 60
 Phe Leu Pro Arg Thr Ile Thr Leu Lys Lys Pro Pro Gly Ala Gln Leu
 65 70 75 80
 Gly Phe Asn Ile Arg Gly Gly Lys Ala Ser Gln Leu Gly Ile Phe Ile
 85 90 95
 Ser Lys Val Ile Pro Asp Ser Asp Ala His Arg Ala Gly Leu Gln Glu
 100 105 110
 Gly Asp Gln Val Leu Ala Val Asn Asp Val Asp Phe Gln Asp Ile Glu
 115 120 125
 His Ser Lys Ala Val Glu Ile Leu Lys Thr Ala Arg Glu Ile Ser Met
 130 135 140
 Arg Val Arg Phe Phe Pro Tyr Asn Tyr His Arg Gln Lys Glu Arg Thr
 145 150 155 160
 Val His
 162

<210> 1160
 <211> 295
 <212>Amino acid
 <213> Homo sapiens

<400> 1160
 His Glu Gln Val Ser Ala Leu His Arg Arg Ile Lys Ala Ile Val Glu
 1 5 10 15
 Val Ala Ala Met Cys Gly Val Asn Ile Ile Cys Phe Gln Glu Ala Trp
 20 25 30
 Thr Met Pro Phe Ala Phe Cys Thr Arg Glu Lys Leu Pro Trp Thr Glu
 35 40 45
 Phe Ala Glu Ser Ala Glu Asp Gly Pro Thr Thr Arg Phe Cys Gln Lys
 50 55 60
 Leu Ala Lys Asn His Asp Met Val Val Val Ser Pro Ile Leu Glu Arg
 65 70 75 80
 Asp Ser Glu His Gly Asp Val Leu Trp Asn Thr Ala Val Val Ile Ser
 85 90 95
 Asn Ser Gly Ala Val Leu Gly Lys Thr Arg Lys Asn His Ile Pro Arg
 100 105 110
 Val Gly Asp Phe Asn Glu Ser Thr Tyr Tyr Met Glu Gly Asn Leu Gly
 115 120 125
 His Pro Val Phe Gln Thr Gln Phe Gly Arg Ile Ala Val Asn Ile Cys
 130 135 140
 Tyr Gly Arg His His Pro Leu Asn Trp Leu Met Tyr Ser Ile Asn Gly
 145 150 155 160
 Ala Glu Ile Ile Phe Asn Pro Ser Ala Thr Ile Gly Ala Leu Ser Glu
 165 170 175
 Ser Leu Trp Pro Ile Glu Ala Arg Asn Ala Ala Ile Ala Asn His Cys
 180 185 190
 Phe Thr Cys Ala Ile Asn Arg Val Gly Thr Glu His Phe Pro Asn Glu
 195 200 205
 Phe Thr Ser Gly Asp Gly Lys Lys Ala His Gln Asp Phe Gly Tyr Phe
 210 215 220
 Tyr Gly Ser Ser Tyr Val Ala Ala Pro Asp Ser Ser Arg Thr Pro Gly
 225 230 235 240
 Leu Ser Arg Ser Arg Asp Gly Leu Leu Val Ala Lys Leu Asp Leu Asn
 245 250 255
 Leu Cys Gln Gln Val Asn Asp Val Trp Asn Phe Lys Met Thr Gly Arg
 260 265 270
 Tyr Glu Met Tyr Ala Arg Glu Leu Ala Glu Ala Val Lys Ser Asn Tyr
 275 280 285
 Ser Pro Thr Ile Val Lys Glu
 290 295

<210> 1161
 <211> 1621
 <212>Amino acid
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(1621)
 <223> X = any amino acid or stop code

<400> 1161

Met	Ala	Lys	Ser	Gly	Gly	Cys	Gly	Ala	Gly	Ala	Gly	Val	Gly	Gly	Gly	1	5	10	15
Asn	Gly	Ala	Leu	Thr	Trp	Val	Asn	Asn	Ala	Ala	Lys	Lys	Glu	Glu	Ser	20	25	30	
Glu	Thr	Ala	Asn	Lys	Asn	Asp	Ser	Ser	Lys	Lys	Leu	Ser	Val	Glu	Arg	35	40	45	
Val	Tyr	Gln	Lys	Lys	Thr	Gln	Leu	Glu	His	Ile	Leu	Leu	Arg	Pro	Asp	50	55	60	
Thr	Tyr	Ile	Gly	Ser	Val	Glu	Pro	Leu	Thr	Gln	Phe	Met	Trp	Val	Tyr	65	70	75	80
Asp	Glu	Asp	Val	Gly	Met	Asn	Cys	Arg	Glu	Val	Thr	Phe	Val	Pro	Gly	85	90	95	
Leu	Tyr	Lys	Ile	Phe	Asp	Glu	Ile	Leu	Val	Asn	Ala	Ala	Asp	Asn	Lys	100	105	110	
Gln	Arg	Asp	Lys	Asn	Met	Thr	Cys	Ile	Lys	Val	Ser	Ile	Asp	Pro	Glu	115	120	125	
Ser	Asn	Ile	Ile	Ser	Ile	Trp	Asn	Asn	Gly	Lys	Gly	Ile	Pro	Val	Val	130	135	140	
Glu	His	Lys	Val	Glu	Lys	Val	Tyr	Val	Pro	Ala	Leu	Ile	Phe	Gly	Gln	145	150	155	160
Leu	Leu	Thr	Ser	Ser	Asn	Tyr	Asp	Asp	Asp	Glu	Lys	Lys	Val	Thr	Gly	165	170	175	
Gly	Arg	Asn	Gly	Tyr	Gly	Ala	Lys	Leu	Cys	Asn	Ile	Phe	Ser	Thr	Lys	180	185	190	
Phe	Thr	Val	Glu	Thr	Ala	Cys	Lys	Glu	Tyr	Lys	His	Ser	Phe	Lys	Gln	195	200	205	
Thr	Trp	Met	Asn	Asn	Met	Met	Lys	Thr	Ser	Glu	Ala	Lys	Ile	Lys	His	210	215	220	
Phe	Asp	Gly	Glu	Asp	Tyr	Thr	Cys	Ile	Thr	Phe	Gln	Pro	Asp	Leu	Ser	225	230	235	240
Lys	Phe	Lys	Met	Glu	Lys	Leu	Asp	Lys	Asp	Ile	Val	Ala	Leu	Met	Thr	245	250	255	
Arg	Arg	Ala	Tyr	Asp	Leu	Ala	Gly	Ser	Cys	Arg	Gly	Val	Lys	Val	Met	260	265	270	
Phe	Asn	Gly	Lys	Lys	Leu	Pro	Val	Asn	Gly	Phe	Arg	Ser	Tyr	Val	Asp	275	280	285	
Leu	Tyr	Val	Lys	Asp	Lys	Leu	Asp	Glu	Thr	Gly	Val	Ala	Leu	Lys	Val	290	295	300	
Ile	His	Glu	Leu	Ala	Asn	Glu	Arg	Trp	Asp	Val	Cys	Leu	Thr	Leu	Ser	305	310	315	320
Glu	Lys	Gly	Phe	Gln	Gln	Ile	Ser	Phe	Val	Asn	Ser	Ile	Ala	Thr	Thr	325	330	335	
Lys	Gly	Gly	Arg	His	Val	Asp	Tyr	Val	Val	Asp	Gln	Val	Val	Gly	Lys	340	345	350	
Leu	Ile	Glu	Val	Val	Lys	Lys	Lys	Asn	Lys	Ala	Gly	Val	Ser	Val	Lys	355	360	365	
Pro	Phe	Gln	Val	Lys	Asn	His	Ile	Trp	Val	Phe	Ile	Asn	Cys	Leu	Ile	370	375	380	
Glu	Asn	Pro	Thr	Phe	Asp	Ser	Gln	Thr	Lys	Glu	Asn	Met	Thr	Leu	Gln	385	390	395	400
Pro	Lys	Ser	Phe	Gly	Ser	Lys	Cys	Gln	Leu	Ser	Glu	Lys	Phe	Phe	Lys	405	410	415	
Ala	Ala	Ser	Asn	Cys	Gly	Ile	Val	Glu	Ser	Ile	Leu	Asn	Trp	Val	Lys	420	425	430	
Phe	Lys	Ala	Gln	Thr	Gln	Leu	Asn	Lys	Lys	Cys	Ser	Ser	Val	Lys	Tyr	435	440	445	
Ser	Lys	Ile	Lys	Gly	Ile	Pro	Lys	Leu	Asp	Asp	Ala	Asn	Asp	Ala	Gly	450	455	460	
Gly	Lys	His	Ser	Leu	Glu	Cys	Thr	Leu	Ile	Leu	Thr	Glu	Gly	Asp	Ser	465	470	475	480
Ala	Lys	Ser	Leu	Ala	Val	Ser	Gly	Leu	Gly	Val	Ile	Gly	Arg	Asp	Arg	485	490	495	
Tyr	Gly	Val	Phe	Pro	Leu	Arg	Gly	Lys	Ile	Leu	Asn	Val	Arg	Glu	Ala				

500										505										510																											
Ser	His	Lys	Gln	Ile	Met	Glu	Asn	Ala	Glu	Ile	Asn	Asn	Ile	Ile	Lys	Ser	His	Lys	Gln	Ile	Met	Glu	Asn	Ala	Glu	Ile	Asn	Asn	Ile	Ile	Lys	Ser	His	Lys	Gln	Ile	Met	Glu	Asn	Ala	Glu	Ile	Asn	Asn	Ile	Ile	Lys
515										520										525																											
Ile	Val	Gly	Leu	Gln	Tyr	Lys	Lys	Ser	Tyr	Asp	Asp	Ala	Gln	Ser	Leu	Ile	Val	Gly	Leu	Gln	Tyr	Lys	Lys	Ser	Tyr	Asp	Asp	Ala	Gln	Ser	Leu	Ile	Val	Gly	Leu	Gln	Tyr	Lys	Lys	Ser	Tyr	Asp	Asp	Ala	Gln	Ser	Leu
530										535										540																											
Lys	Thr	Leu	Arg	Tyr	Gly	Lys	Ile	Met	Ile	Met	Thr	Asp	Gln	Asp	Gln	Lys	Thr	Leu	Arg	Tyr	Gly	Lys	Ile	Met	Ile	Met	Thr	Asp	Gln	Asp	Gln	Lys	Thr	Leu	Arg	Tyr	Gly	Lys	Ile	Met	Ile	Met	Thr	Asp	Gln	Asp	Gln
545										550										555																											
Asp	Gly	Ser	His	Ile	Lys	Gly	Leu	Leu	Ile	Asn	Phe	Ile	His	His	Asn	Asp	Gly	Ser	His	Ile	Lys	Gly	Leu	Leu	Ile	Asn	Phe	Ile	His	His	Asn	Asp	Gly	Ser	His	Ile	Lys	Gly	Leu	Leu	Ile	Asn	Phe	Ile	His	His	Asn
565										570										575																											
Trp	Pro	Ser	Leu	Lys	His	Gly	Phe	Leu	Glu	Glu	Phe	Ile	Thr	Pro	Trp	Pro	Ser	Leu	Lys	His	Gly	Phe	Leu	Glu	Glu	Phe	Ile	Thr	Pro	Trp	Pro	Ser	Leu	Lys	His	Gly	Phe	Leu	Glu	Glu	Phe	Ile	Thr	Pro			
580										585										590																											
Ile	Val	Lys	Ala	Ser	Lys	Asn	Lys	Gln	Glu	Leu	Ser	Phe	Tyr	Ser	Ile	Ile	Val	Lys	Ala	Ser	Lys	Asn	Lys	Gln	Glu	Leu	Ser	Phe	Tyr	Ser	Ile	Ile	Val	Lys	Ala	Ser	Lys	Asn	Lys	Gln	Glu	Leu	Ser	Phe	Tyr	Ser	Ile
595										600										605																											
Pro	Glu	Phe	Asp	Glu	Trp	Lys	Lys	His	Ile	Glu	Asn	Gln	Lys	Ala	Trp	Pro	Glu	Phe	Asp	Glu	Trp	Lys	Lys	His	Ile	Glu	Asn	Gln	Lys	Ala	Trp	Pro	Glu	Phe	Asp	Glu	Trp	Lys	Lys	His	Ile	Glu	Asn	Gln	Lys	Ala	Trp
610										615										620																											
Lys	Ile	Lys	Tyr	Tyr	Lys	Gly	Leu	Gly	Thr	Ser	Thr	Ala	Lys	Glu	Ala	Lys	Ile	Lys	Tyr	Tyr	Lys	Gly	Leu	Gly	Thr	Ser	Thr	Ala	Lys	Glu	Ala	Lys	Ile	Lys	Tyr	Tyr	Lys	Gly	Leu	Gly	Thr	Ser	Thr	Ala	Lys	Glu	Ala
625										630										635																											
Lys	Glu	Tyr	Phe	Ala	Asp	Met	Glu	Arg	His	Arg	Ile	Leu	Phe	Arg	Tyr	Lys	Glu	Tyr	Phe	Ala	Asp	Met	Glu	Arg	His	Arg	Ile	Leu	Phe	Arg	Tyr	Lys	Glu	Tyr	Phe	Ala	Asp	Met	Glu	Arg	His	Arg	Ile	Leu	Phe	Arg	Tyr
645										650										655																											
Ala	Gly	Pro	Glu	Asp	Asp	Ala	Ala	Ile	Thr	Leu	Ala	Phe	Ser	Lys	Lys	Ala	Gly	Pro	Glu	Asp	Asp	Ala	Ala	Ile	Thr	Leu	Ala	Phe	Ser	Lys	Lys	Ala	Gly	Pro	Glu	Asp	Asp	Ala	Ala	Ile	Thr	Leu	Ala	Phe	Ser	Lys	Lys
660										665										670																											
Lys	Ile	Asp	Asp	Arg	Lys	Glu	Trp	Leu	Thr	Asn	Phe	Met	Glu	Asp	Arg	Lys	Ile	Asp	Asp	Arg	Lys	Glu	Trp	Leu	Thr	Asn	Phe	Met	Glu	Asp	Arg	Lys	Ile	Asp	Asp	Arg	Lys	Glu	Trp	Leu	Thr	Asn	Phe	Met	Glu	Asp	Arg
675										680										685																											
Arg	Gln	Arg	Arg	Leu	His	Gly	Leu	Pro	Glu	Gln	Phe	Leu	Tyr	Gly	Thr	Arg	Gln	Arg	Arg	Leu	His	Gly	Leu	Pro	Glu	Gln	Phe	Leu	Tyr	Gly	Thr	Arg	Gln	Arg	Arg	Leu	His	Gly	Leu	Pro	Glu	Gln	Phe	Leu	Tyr	Gly	Thr
690										695										700																											
Ala	Thr	Lys	His	Leu	Thr	Tyr	Asn	Asp	Phe	Ile	Asn	Lys	Glu	Leu	Ile	Ala	Thr	Lys	His	Leu	Thr	Tyr	Asn	Asp	Phe	Ile	Asn	Lys	Glu	Leu	Ile	Ala	Thr	Lys	His	Leu	Thr	Tyr	Asn	Asp	Phe	Ile	Asn	Lys	Glu	Leu	Ile
705										710										715																											
Leu	Phe	Ser	Asn	Ser	Asp	Asn	Glu	Arg	Ser	Ile	Pro	Ser	Leu	Val	Asp	Leu	Phe	Ser	Asn	Ser	Asp	Asn	Glu	Arg	Ser	Ile	Pro	Ser	Leu	Val	Asp	Leu	Phe	Ser	Asn	Ser	Asp	Asn	Glu	Arg	Ser	Ile	Pro	Ser	Leu	Val	Asp
725										730										735																											
Gly	Phe	Lys	Pro	Gly	Gln	Arg	Lys	Val	Leu	Phe	Thr	Cys	Phe	Lys	Arg	Gly	Phe	Lys	Pro	Gly	Gln	Arg	Lys	Val	Leu	Phe	Thr	Cys	Phe	Lys	Arg	Gly	Phe	Lys	Pro	Gly	Gln	Arg	Lys	Val	Leu	Phe	Thr	Cys	Phe	Lys	Arg
740										745										750																											
Asn	Asp	Lys	Arg	Glu	Val	Lys	Val	Ala	Gln	Leu	Ala	Gly	Ser	Val	Ala	Asn	Asp	Lys	Arg	Glu	Val	Lys	Val	Ala	Gln	Leu	Ala	Gly	Ser	Val	Ala	Asn	Asp	Lys	Arg	Glu	Val	Lys	Val	Ala	Gln	Leu	Ala	Gly	Ser	Val	Ala
755										760										765																											
Glu	Met	Ser	Ala	Tyr	His	His	Gly	Glu	Gln	Ala	Leu	Met	Met	Thr	Ile	Glu	Met	Ser	Ala	Tyr	His	His	Gly	Glu	Gln	Ala	Leu	Met	Met	Thr	Ile	Glu	Met	Ser	Ala	Tyr	His	His	Gly	Glu	Gln	Ala	Leu	Met	Met	Thr	Ile
770										775										780																											
Val	Asn	Leu	Ala	Gln	Asn	Phe	Val	Gly	Ser	Asn	Asn	Ile	Asn	Leu	Leu	Val	Asn	Leu	Ala	Gln	Asn	Phe	Val	Gly	Ser	Asn	Asn	Ile	Asn	Leu	Leu	Val	Asn	Leu	Ala	Gln	Asn	Phe	Val	Gly	Ser	Asn	Asn	Ile	Asn	Leu	Leu
785										790										795																											
Gln	Pro	Ile	Gly	Gln	Phe	Gly	Thr	Arg	Leu	His	Gly	Gly	Lys	Asp	Ala	Gln	Pro	Ile	Gly	Gln	Phe	Gly	Thr	Arg	Leu	His	Gly	Gly	Lys	Asp	Ala	Gln	Pro	Ile	Gly	Gln	Phe	Gly	Thr	Arg	Leu	His	Gly	Gly	Lys	Asp	Ala
805										810										815																											
Ala	Ser	Pro	Arg	Tyr	Ile	Phe	Thr	Met	Leu	Ser	Thr	Leu	Ala	Arg	Leu	Ala	Ser	Pro	Arg	Tyr	Ile	Phe	Thr	Met	Leu	Ser	Thr	Leu	Ala	Arg	Leu	Ala	Ser	Pro	Arg	Tyr	Ile	Phe	Thr	Met	Leu	Ser	Thr	Leu	Ala	Arg	Leu
820										825										830																											
Leu	Phe	Pro	Ala	Val	Asp	Asp	Asn	Leu	Leu	Lys	Phe	Leu	Tyr	Asp	Asp	Leu	Phe	Pro	Ala	Val	Asp	Asp	Asn	Leu	Leu	Lys	Phe	Leu	Tyr	Asp	Asp	Leu	Phe	Pro	Ala	Val	Asp	Asp	Asn	Leu	Leu	Lys	Phe	Leu	Tyr	Asp	Asp
835										840										845																											
Asn	Gln	Arg	Val	Glu	Pro	Glu	Trp	Tyr	Ile	Pro	Ile	Ile	Pro	Met	Val	Asn	Gln	Arg	Val	Glu	Pro	Glu	Trp	Tyr	Ile	Pro	Ile	Ile	Pro	Met	Val	Asn	Gln	Arg	Val	Glu	Pro	Glu	Trp	Tyr	Ile	Pro	Ile	Ile	Pro	Met	Val
850										855										860																											
Leu	Ile	Asn	Gly	Ala	Glu	Gly	Ile	Gly	Thr	Gly	Trp	Ala	Cys	Lys	Leu	Leu	Ile	Asn	Gly	Ala	Glu	Gly	Ile	Gly	Thr	Gly	Trp	Ala	Cys	Lys	Leu	Leu	Ile	Asn	Gly	Ala	Glu	Gly	Ile	Gly	Thr	Gly	Trp	Ala	Cys	Lys	Leu
865										870										875																											
Pro	Asn	Tyr	Asp	Ala	Arg	Glu	Ile	Val	Asn	Asn	Val	Arg	Arg	Met	Leu	Pro	Asn	Tyr	Asp	Ala	Arg	Glu	Ile	Val	Asn	Asn	Val	Arg	Arg	Met	Leu	Pro	Asn	Tyr	Asp	Ala	Arg	Glu	Ile	Val	Asn	Asn	Val	Arg	Arg	Met	Leu
885										890										895																											
Asp	Gly	Leu	Asp	Pro	His	Pro	Met	Leu	Pro	Asn	Tyr	Lys	Asn	Phe	Lys	Asp	Gly	Leu	Asp	Pro	His	Pro	Met	Leu	Pro	Asn	Tyr	Lys	Asn	Phe	Lys	Asp	Gly	Leu	Asp	Pro	His	Pro	Met	Leu	Pro	Asn	Tyr	Lys	Asn	Phe	Lys
900										905										910																											
Gly	Thr	Ile	Gln	Glu	Leu	Gly	Gln	Asn	Gln	Tyr	Ala	Val	Ser	Gly	Glu	Gly	Thr	Ile	Gln	Glu	Leu	Gly	Gln	Asn	Gln	Tyr	Ala	Val	Ser	Gly	Glu	Gly	Thr	Ile	Gln	Glu	Leu	Gly	Gln	Asn	Gln	Tyr	Ala	Val	Ser	Gly	Glu
915										920										925																											
Ile	Phe	Val	Val	Asp	Arg	Asn	Thr	Val	Glu	Ile	Thr	Glu	Leu	Pro	Val	Ile	Phe	Val	Val	Asp	Arg	Asn	Thr	Val	Glu	Ile	Thr	Glu	Leu	Pro	Val	Ile	Phe	Val	Val	Asp	Arg	Asn	Thr	Val	Glu	Ile	Thr	Glu	Leu	Pro	Val
930										935										940																											
Arg	Thr	Trp	Thr	Gln	Val	Tyr	Lys	Glu	Gln	Val	Leu	Glu	Pro	Met	Leu	Arg	Thr	Trp	Thr	Gln	Val	Tyr	Lys	Glu	Gln	Val	Leu	Glu	Pro	Met	Leu	Arg	Thr	Trp	Thr	Gln	Val	Tyr	Lys	Glu	Gln	Val	Leu	Glu	Pro	Met	Leu
945										950										955																											
Asn	Gly	Thr	Asp	Lys	Thr	Pro	Ala	Leu	Ile	Ser	Asp	Tyr	Lys	Glu	Tyr	Asn	Gly	Thr	Asp	Lys	Thr	Pro	Ala	Leu	Ile	Ser	Asp	Tyr	Lys	Glu	Tyr	Asn	Gly	Thr	Asp	Lys	Thr	Pro	Ala	Leu	Ile	Ser	Asp	Tyr	Lys	Glu	Tyr
965										970										975																											
His	Thr	Asp	Thr	Thr	Val	Lys	Phe	Val	Val	Lys	Met	Thr	Glu	Glu	Lys	His	Thr	Asp	Thr	Thr	Val	Lys	Phe	Val	Val	Lys	Met	Thr	Glu	Glu	Lys	His	Thr	Asp	Thr	Thr	Val	Lys	Phe	Val	Val	Lys	Met	Thr	Glu	Glu	Lys
980										985										990																											
Leu	Ala	Gln	Ala	Glu	Ala	Ala	Gly	Leu	His	Lys	Val	Phe	Lys	Leu	Gln	Leu	Ala	Gln	Ala	Glu	Ala	Ala	Gly	Leu	His	Lys	Val	Phe	Lys	Leu	Gln	Leu	Ala	Gln	Ala	Glu	Ala	Ala	Gly	Leu	His	Lys	Val	Phe	Lys	Leu	Gln
995										1000										1005																											
Thr	Thr	Leu	Thr	Cys	Asn	Ser	Met	Val	Leu	Phe	Asp	His	Met	Gly	Cys	Thr	Thr	Leu	Thr	Cys	Asn	Ser	Met	Val	Leu	Phe	Asp	His	Met	Gly	Cys	Thr	Thr	Leu	Thr	Cys	Asn	Ser	Met	Val	Leu	Phe	Asp	His	Met	Gly	Cys

1010	1015	1020
Leu Lys Lys Tyr Glu Thr Val Gln Asp Ile Leu Lys Glu Phe Phe Asp		
1025	1030	1035
Leu Arg Leu Ser Tyr Tyr Gly Leu Arg Lys Glu Trp Leu Val Gly Met		1040
	1045	1050
Leu Gly Ala Glu Phe Thr Lys Leu Asn Asn Gln Ala Arg Phe Ile Leu		1055
	1060	1065
Glu Lys Ile Gln Gly Lys Ile Thr Ile Xaa Asn Arg Ser Lys Lys Asp		1070
	1075	1080
Leu Ile Gln Met Leu Val Gln Arg Gly Tyr Glu Ser Asp Pro Val Lys		1085
- 1090	1095	1100
Ala Trp Lys Glu Ala Gln Glu Lys Ala Ala Glu Glu Asp Glu Thr Gln		
1105	1110	1115
Asn Gln His Asp Asp Ser Ser Ser Asp Ser Gly Thr Pro Ser Gly Pro		1120
	1125	1130
Asp Phe Asn Tyr Ile Leu Asn Met Ser Leu Trp Ser Leu Thr Lys Glu		1135
	1140	1145
Lys Val Glu Glu Leu Ile Lys Gln Arg Asp Ala Lys Gly Arg Glu Val		1150
	1155	1160
Asn Asp Leu Lys Arg Lys Ser Pro Ser Asp Leu Trp Lys Glu Asp Leu		1165
	1170	1175
Ala Ala Phe Val Glu Glu Leu Asp Lys Val Glu Ser Gln Glu Arg Glu		1180
1185	1190	1195
Asp Val Leu Ala Gly Met Ser Gly Lys Ala Ile Lys Gly Lys Val Gly		1200
	1205	1210
Lys Pro Lys Val Lys Lys Leu Gln Leu Glu Glu Thr Met Pro Ser Pro		1215
	1220	1225
Tyr Gly Arg Arg Ile Ile Pro Glu Ile Thr Ala Met Lys Ala Asp Ala		1230
	1235	1240
Ser Lys Lys Leu Leu Lys Lys Lys Lys Gly Asp Leu Asp Thr Ala Ala		1245
	1250	1255
Val Lys Val Glu Phe Asp Glu Glu Phe Ser Gly Ala Pro Val Glu Gly		1260
1265	1270	1275
Ala Gly Glu Glu Ala Leu Thr Pro Ser Val Pro Ile Asn Lys Gly Pro		1280
	1285	1290
Lys Pro Lys Arg Glu Lys Lys Glu Pro Gly Thr Arg Val Arg Lys Thr		1295
	1300	1305
Pro Thr Ser Ser Gly Lys Pro Ser Ala Lys Lys Val Lys Lys Arg Asn		1310
	1315	1320
Pro Trp Ser Asp Asp Glu Ser Lys Ser Glu Ser Asp Leu Glu Glu Thr		1325
- 1330	1335	1340
Glu Pro Val Val Ile Pro Arg Asp Ser Leu Leu Arg Arg Ala Ala Ala		
1345	1350	1355
Glu Arg Pro Lys Tyr Thr Phe Asp Phe Ser Glu Glu Glu Asp Asp Asp		1360
	1365	1370
Ala Asp Asp Asp Asp Asp Asp Asn Asn Asp Leu Glu Glu Leu Lys Val		1375
	1380	1385
Lys Ala Ser Pro Ile Thr Asn Asp Gly Glu Asp Glu Phe Val Pro Ser		1390
	1395	1400
Asp Gly Leu Asp Lys Asp Glu Tyr Thr Phe Ser Pro Gly Lys Ser Lys		1405
	1410	1415
Ala Thr Pro Glu Lys Ser Leu His Asp Lys Lys Ser Gln Asp Phe Gly		1420
1425	1430	1435
Asn Leu Phe Ser Phe Pro Ser Tyr Ser Gln Lys Ser Glu Asp Asp Ser		1440
	1445	1450
Ala Lys Phe Asp Ser Asn Glu Glu Asp Ser Ala Ser Val Phe Ser Pro		1455
	1460	1465
Ser Phe Gly Leu Lys Gln Thr Asp Lys Val Pro Ser Lys Thr Val Ala		1470
	1475	1480
Ala Lys Lys Gly Lys Pro Ser Ser Asp Thr Val Pro Lys Pro Lys Arg		1485
	1490	1495
Ala Pro Lys Gln Lys Lys Val Val Glu Ala Val Asn Ser Asp Ser Asp		1500
1505	1510	1515
Ser Glu Phe Gly Ile Pro Lys Lys Thr Thr Thr Pro Lys Gly Lys Gly		1520

```

1525      1530      1535
Arg Gly Ala Lys Lys Arg Lys Ala Ser Gly Ser Glu Asn Glu Gly Asp
1540      1545      1550
Tyr Asn Pro Gly Arg Lys Thr Ser Lys Thr Thr Ser Lys Lys Pro Lys
1555      1560      1565
Lys Thr Ser Phe Asp Gln Asp Ser Asp Val Asp Ile Phe Pro Ser Asp
1570      1575      1580
Phe Pro Thr Glu Pro Pro Ser Leu Pro Arg Thr Gly Arg Ala Arg Lys
1585      1590      1595      1600
Glu Val Lys Tyr Phe Ala Glu Ser Asp Glu Glu Asp Asp Val Asp
1605      1610      1615
Phe Ala Met Phe Asn
16201621

```

<210> 1162

<211> 73

<212>Amino acid

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(73)

<223> X = any amino acid or stop code

<400> 1162

```

Lys Gly Cys Leu Ala Ala Ser Phe Asn Cys Ile Phe Leu Tyr Thr Gly
1      5      10      15
Glu Leu Tyr Pro Thr Met Ile Arg Xaa Val Glu Ala Xaa Trp Glu Asn
20     25     30
Asp Ser Leu Phe Leu Gly Lys Asp Ile Leu Leu Cys Thr Gly Gln Thr
35     40     45
Pro Glu Leu Asn Gln Val His Pro Ser Pro Lys Ala Pro Pro Asn Thr
50     55     60
His His Cys Lys Ala His Ser Ser His
65     70     73

```

<210> 1163

<211> 336

<212>Amino acid

<213> Homo sapiens

<400> 1163

```

Glu Asn Ser Phe Glu Cys Lys Asp Cys Gly Lys Ala Phe Ser Arg Gly
1      5      10      15
Tyr Gln Leu Ser His His Gln Lys Ile His Thr Gly Glu Lys Pro Tyr
20     25     30
Glu Cys Lys Glu Cys Lys Lys Ala Phe Arg Trp Gly Asn Gln Leu Thr
35     40     45
Gln His Gln Lys Ile His Thr Gly Glu Lys Pro Tyr Glu Cys Lys Asp
50     55     60
Cys Gly Lys Ala Phe Arg Trp Gly Ser Ser Leu Val Ile His Lys Arg
65     70     75     80
Ile His Thr Gly Glu Lys Pro Tyr Glu Cys Lys Asp Cys Gly Lys Ala
85     90     95

```

```

Phe Arg Arg Gly Asp Glu Leu Thr Gln His Gln Arg Phe His Thr Gly
    100              105              110
Glu Lys Asp Tyr Glu Cys Lys Asp Cys Gly Lys Thr Phe Ser Arg Val
    115              120              125
Tyr Lys Leu Ile Gln His Lys Arg Ile His Ser Gly Glu Lys Pro Tyr
    130              135              140
Glu Cys Lys Asp Cys Gly Lys Ala Phe Ile Cys Gly Ser Ser Leu Ile
    145              150              155              160
Gln His Lys Arg Ile His Thr Gly Glu Lys Pro Tyr Glu Cys Gln Glu
    165              170              175
Cys Gly Lys Ala Phe Thr Arg Val Asn Tyr Leu Thr Gln His Gln Lys
    180              185              190
Ile His Thr Gly Glu Lys Pro His Glu Cys Lys Glu Cys Gly Lys Ala
    195              200              205
Phe Arg Trp Gly Ser Ser Leu Val Lys His Glu Arg Ile His Thr Gly
    210              215              220
Glu Lys Pro Tyr Lys Cys Thr Glu Cys Gly Lys Ala Phe Asn Cys Gly
    225              230              235              240
Tyr His Leu Thr Gln His Glu Arg Ile His Thr Gly Glu Thr Pro Tyr
    245              250              255
Lys Cys Lys Glu Cys Gly Lys Ala Phe Ile Tyr Gly Ser Ser Leu Val
    260              265              270
Lys His Glu Arg Ile His Thr Gly Val Lys Pro Tyr Gly Cys Thr Glu
    275              280              285
Cys Gly Lys Ser Phe Ser His Gly His Gln Leu Thr Gln His Gln Lys
    290              295              300
Thr His Ser Gly Ala Lys Ser Tyr Glu Cys Lys Glu Cys Gly Lys Ala
    305              310              315              320
Cys Asn His Leu Asn His Leu Arg Glu His Gln Arg Ile His Asn Ser
    325              330              335 336

```

<210> 1164

<211> 118

<212>Amino acid

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(118)

<223> X = any amino acid or stop code

<400> 1164

```

His Gln Tyr Leu Asp Asp Leu Tyr Pro Leu His Val Met Thr Ile Leu
  1              5              10              15
Leu Lys Ser His Phe Phe Thr Met Leu Lys Arg Pro Val Gly Ser Ser
    20              25              30
Ser Phe Ala Ser Leu Pro Phe Tyr His Gln Ser Ile Leu Leu Arg Lys
    35              40              45
Asn Gln Met Lys Arg Lys Lys Thr Gln Gln Asp Leu Thr His Ile Asn
    50              55              60
Trp Thr Leu Gln Ala Val Ser Ile Gln Thr Cys Ile Trp Leu Gln Lys
    65              70              75              80
Lys Pro Ser Ser Tyr Phe His Gln Leu Pro Asn Gln Val Leu Xaa Pro
    85              90              95
Glu Asn Ser Gly Pro Glu Ser Cys Leu Tyr Asp Leu Ala Ala Val Val
    100              105              110
Val His His Gly Ser Gly

```

115

118

<210> 1165
 <211> 146
 <212>Amino acid
 <213> Homo sapiens

 <220>
 <221> misc_feature
 <222> (1)...(146)
 <223> X = any amino acid or stop code

<400> 1165
 Xaa Leu Asp Pro Asp Thr Leu Pro Ala Val Ala Thr Leu Leu Met Asp
 1 5 10 15
 Val Met Phe Tyr Ser Asn Gly Val Lys Asp Pro Met Ala Thr Gly Asp
 20 25 30
 Asp Cys Gly His Ile Arg Phe Phe Ser Phe Ser Leu Ile Glu Gly Tyr
 35 40 45
 Ile Ser Leu Val Met Asp Val Gln Thr Gln Gln Arg Phe Pro Ser Asn
 50 55 60
 Leu Leu Phe Thr Ser Ala Ser Gly Glu Leu Trp Lys Met Val Arg Ile
 65 70 75 80
 Gly Gly Gln Pro Leu Gly Phe Gly Pro Val Trp Glu Ser Gly Pro Thr
 85 90 95
 Gly Pro Thr Ser Pro Leu Ile Leu Pro Val Thr Pro Ser Ser Ser His
 100 105 110
 Arg Gln Ala Ala Ser Gln Val Thr Thr Lys Gln Gly Gln Trp Leu
 115 120 125
 Cys Leu Lys Arg Pro Ser Ala Arg Ser Pro Asp His Thr Ala Cys Leu
 130 135 140
 Gly *
 145

<210> 1166
 <211> 84
 <212>Amino acid
 <213> Homo sapiens

 <220>
 <221> misc_feature
 <222> (1)...(84)
 <223> X = any amino acid or stop code

<400> 1166
 Glu Ala Pro Leu Thr Ser Val Cys Phe Ser Leu Glu Arg Arg Phe Gly
 1 5 10 15
 Ser Ser Ser Asn Thr Thr Ser Phe Gly Thr Leu Ala Ser Gln Asn Ala
 20 25 30
 Pro Thr Phe Gly Ser Leu Ser Gln Gln Thr Ser Gly Phe Gly Thr Gln
 35 40 45
 Ser Ser Gly Phe Ser Gly Phe Gly Ser Gly Thr Gly Gly Phe Ser Phe
 50 55 60
 Gly Ser Asn Asn Ser Xaa Val Ser Pro Phe Leu Ser Leu Thr Leu Ile

65
Lys Ser Ile Lys
84

70

75

80

<210> 1167
<211> 112
<212>Amino acid
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(112)
<223> X = any amino acid or stop code

<400> 1167
Glu Glu Pro Gln Gly Ser Pro Ile Trp Val Trp Leu Ala Gly Ser Leu
1 5 10 15
Thr Ser Val Ser Cys Phe Leu Pro Phe Gln Arg Met Arg Ile Lys Pro
20 25 30
His Gln Gly Gln Tyr Ile Gly Glu Met Ser Phe Leu Gln His His Lys
35 40 45
Gly Glu Cys Arg Pro Gln Lys Asp Xaa Ala Arg Gln Glu Asn Pro Cys
50 55 60
Gly Pro Cys Ser Glu Arg Arg Lys His Leu Leu Gly Gln Asp Pro Lys
65 70 75 80
Thr Cys Lys Cys Ser Cys Lys Asn Thr Asp Ser Arg Cys Lys Ala Arg
85 90 95
Pro Leu Glu Leu Asn Glu Arg Thr Cys Arg Cys Asp Lys Pro Arg Arg
100 105 110 112

<210> 1168
<211> 319
<212>Amino acid
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(319)
<223> X = any amino acid or stop code

<400> 1168
Thr Leu Trp Ala Gly Pro Gly Leu Cys Pro Gln Ser His Ser Ser Ser
1 5 10 15
Ser Val Pro Ala Pro Trp Glu Pro His Val Glu Arg Ala Leu Arg Thr
20 25 30
Asp Arg Asn Gln Gly Gln Arg Pro Leu Leu Ser Ala Ser Trp Ala Pro
35 40 45
Ala Pro Ala Arg Pro Leu Phe Leu Thr Ser Pro Val Leu Leu Pro Lys
50 55 60
Ser Arg Ala Ile Pro Ala Ala Arg Asp Pro Ser Xaa Ala Gly Ile Phe
65 70 75 80
Cys Leu Leu Glu Met Ala Gly Gly Gln Ala Ser Val Val Ile Ile Gly

```

      85      90      95
Ser Ala Gly Val Leu Gly Cys Arg Trp Gly Ser Ser Gly Lys Ser His
      100      105      110
Ser Leu Ser Pro Ser Arg Lys Gly Asn Leu His Leu Leu Ser Gln Glu
      115      120      125
Pro Gln Thr Thr Val Val His Asn Ala Thr Asp Gly Ile Lys Gly Ser
      130      135      140
Thr Glu Ser Cys Asn Thr Thr Glu Asp Glu Asp Leu Lys Val Arg
      145      150      155      160
Lys Gln Glu Ile Ile Lys Ile Thr Glu Gln Leu Ile Glu Ala Ile Asn
      165      170      175
Asn Gly Asp Phe Glu Ala Tyr Thr Lys Ile Cys Asp Pro Gly Leu Thr
      180      185      190
Ser Phe Glu Pro Glu Ala Leu Gly Asn Leu Val Glu Gly Met Asp Phe
      195      200      205
His Lys Phe Tyr Phe Glu Asn Arg Glu Trp Val Arg Ala Ala Asp Ile
      210      215      220
Leu Leu Pro Ala Pro Leu Pro Leu Cys Leu Cys Leu Leu Thr Phe
      225      230      235      240
Ser Ser Gln Leu Pro Thr Phe Pro Leu Phe Asp Leu Arg Ala Ala Leu
      245      250      255
Leu Leu Cys Met Leu Val Pro Leu Cys Pro Asp Gly Cys Arg Gln Ala
      260      265      270
Pro Leu Lys Ala Leu Leu Leu Ser Ser Lys Cys His Ser Phe Cys Ser
      275      280      285
Cys Phe Val Ala Val Pro Val Thr Thr Ile Lys Leu Thr Tyr Phe Leu
      290      295      300
Pro Gly Ala Val Ala Tyr Ala Cys Asn Pro Asn Thr Leu Gly Gly
      305      310      315      319

```

<210> 1169
 <211> 96
 <212> Amino acid
 <213> Homo sapiens

```

      <400> 1169
Glu Arg Ala Gly Ala Gly Gly Ala Ala Ala Cys Arg Ala Gly Thr Arg
      1      5      10      15
Ser Gly Ala Thr Ser Arg Thr Pro Trp Pro Leu His Arg Gln Leu Ser
      20      25      30
Met Met Leu Met Leu Ala Gln Ser Asn Pro Gln Leu Phe Ala Leu Met
      35      40      45
Gly Thr Arg Ala Gly Ile Ala Arg Glu Leu Glu Arg Val Glu Gln Gln
      50      55      60
Ser Arg Leu Glu Gln Leu Ser Ala Ala Glu Leu Gln Ser Arg Asn Gln
      65      70      75      80
Gly His Trp Ala Asp Trp Leu Gln Ala Tyr Arg Ala Arg Leu Gly Gln
      85      90      95      96

```

<210> 1170
 <211> 145
 <212> Amino acid
 <213> Homo sapiens

<220>
 <221> misc_feature

<222> (1)...(145)

<223> X = any amino acid or stop code

<400> 1170

```

Asn Gly Thr Leu Phe Ile Met Val Met His Ile Lys Asp Leu Val Ser
 1           5           10           15
Asp Tyr Lys Glu Xaa Trp Leu Xaa Arg Lys Pro Leu Pro Trp Xaa Glu
      20           25           30
Ala Leu Leu Leu Arg Asp Cys Phe Phe Phe Xaa Val Thr Glu Asn Gly
      35           40           45
Ala Asp Pro Asn Pro Tyr Val Lys Thr Tyr Leu Leu Pro Asp Asn His
      50           55           60
Lys Thr Ser Lys Arg Lys Thr Lys Ile Ser Arg Lys Thr Arg Asn Pro
      65           70           75           80
Thr Phe Asn Glu Met Leu Val Tyr Ser Gly Tyr Ser Lys Glu Thr Leu
      85           90           95
Arg Gln Arg Glu Leu Gln Leu Ser Val Leu Ser Ala Glu Ser Leu Arg
      100          105          110
Glu Asn Phe Phe Leu Gly Gly Val Thr Leu Pro Leu Lys Asp Phe Asn
      115          120          125
Leu Ser Lys Glu Thr Val Lys Trp Tyr Gln Leu Thr Ala Ala Thr Tyr
      130          135          140
Leu
145

```

<210> 1171

<211> 464

<212>Amino acid

<213> Homo sapiens

<400> 1171

```

Leu His Arg Ile Met Gln Leu Ala Val Val Val Ser Gln Val Leu Glu
 1           5           10           15
Asn Gly Ser Ser Val Leu Val Cys Leu Glu Glu Gly Trp Asp Ile Thr
      20           25           30
Ala Gln Val Thr Ser Leu Val Gln Leu Leu Ser Asp Pro Phe Tyr Arg
      35           40           45
Thr Leu Glu Gly Phe Gln Met Leu Val Glu Lys Glu Trp Leu Ser Phe
      50           55           60
Gly His Lys Phe Ser Gln Arg Ser Ser Leu Thr Leu Asn Cys Gln Gly
      65           70           75           80
Ser Gly Phe Ala Pro Val Phe Leu Gln Phe Leu Asp Cys Val His Gln
      85           90           95
Val His Asn Gln Tyr Pro Thr Glu Phe Glu Phe Asn Leu Tyr Tyr Leu
      100          105          110
Lys Phe Leu Ala Phe His Tyr Val Ser Asn Arg Phe Lys Thr Phe Leu
      115          120          125
Leu Asp Ser Asp Tyr Glu Arg Leu Glu His Gly Thr Leu Phe Asp Asp
      130          135          140
Lys Gly Glu Lys His Ala Lys Lys Gly Val Cys Ile Trp Glu Cys Ile
      145          150          155          160
Asp Arg Met His Lys Arg Ser Pro Ile Phe Phe Asn Tyr Leu Tyr Ser
      165          170          175
Pro Leu Glu Ile Glu Ala Leu Lys Pro Asn Val Asn Val Ser Ser Leu
      180          185          190

```

```

Lys Lys Trp Asp Tyr Tyr Ile Glu Glu Thr Leu Ser Thr Gly Pro Ser
  195      200      205
Tyr Asp Trp Met Met Leu Thr Pro Lys His Phe Pro Ser Glu Asp Ser
  210      215      220
Asp Leu Ala Gly Glu Ala Gly Pro Arg Ser Gln Arg Arg Thr Val Trp
  225      230      235      240
Pro Cys Tyr Asp Asp Val Ser Cys Thr Gln Pro Asp Ala Leu Thr Ser
      245      250      255
Leu Phe Ser Glu Ile Glu Lys Leu Glu His Lys Leu Asn Gln Ala Pro
      260      265      270
Glu Lys Trp Gln Gln Leu Trp Glu Arg Val Thr Val Asp Leu Lys Glu
      275      280      285
Glu Pro Arg Thr Asp Arg Ser Gln Arg His Leu Ser Arg Ser Pro Gly
      290      295      300
Ile Val Ser Thr Asn Leu Pro Ser Tyr Gln Lys Arg Ser Leu Leu His
  305      310      315      320
Leu Pro Asp Ser Ser Met Gly Glu Glu Gln Asn Ser Ser Ile Ser Pro
      325      330      335
Ser Asn Gly Val Glu Arg Arg Ala Ala Thr Leu Tyr Ser Gln Tyr Thr
      340      345      350
Ser Lys Asn Asp Glu Asn Arg Ser Phe Glu Gly Thr Leu Tyr Lys Arg
      355      360      365
Gly Ala Leu Leu Lys Gly Trp Lys Pro Arg Trp Phe Val Leu Asp Val
  370      375      380
Thr Lys His Gln Leu Arg Tyr Tyr Asp Ser Gly Glu Asp Thr Ser Cys
  385      390      395      400
Lys Gly His Ile Asp Leu Ala Glu Val Glu Met Val Ile Pro Ala Gly
      405      410      415
Pro Ser Met Gly Ala Pro Lys His Thr Ser Asp Lys Ala Phe Phe Asp
      420      425      430
Leu Lys Thr Ser Lys Arg Val Tyr Asn Phe Cys Ala Gln Asp Gly Gln
      435      440      445
Ser Ala Gln Gln Trp Met Asp Lys Ile Gln Ser Cys Ile Ser Asp Ala
  450      455      460      464

```

<210> 1172
 <211> 256
 <212> Amino acid
 <213> Homo sapiens

```

<400> 1172
Glu Val Glu Gly Pro Arg Arg Val Ser Pro Ala Pro Glu Thr Leu Gly
  1      5      10      15
Met Glu Glu Ser Val Val Arg Pro Ser Val Phe Val Val Asp Gly Gln
      20      25      30
Thr Asp Ile Pro Phe Thr Arg Leu Gly Arg Ser His Arg Arg Gln Ser
      35      40      45
Cys Ser Val Ala Arg Val Gly Leu Gly Leu Leu Leu Leu Leu Met Gly
      50      55      60
Ala Gly Leu Ala Val Gln Gly Trp Phe Leu Leu Gln Leu His Trp Arg
      65      70      75      80
Leu Gly Glu Met Val Thr Arg Leu Pro Asp Gly Pro Ala Gly Ser Trp
      85      90      95
Glu Gln Leu Ile Gln Glu Arg Arg Ser His Glu Val Asn Pro Ala Ala
      100      105      110
His Leu Thr Gly Ala Asn Ser Ser Leu Thr Gly Ser Gly Gly Pro Leu
      115      120      125

```

```

Leu Trp Glu Thr Gln Leu Gly Leu Ala Phe Leu Arg Gly Leu Ser Tyr
 130          135          140
His Asp Gly Ala Leu Val Val Thr Lys Ala Gly Tyr Tyr Tyr Ile Tyr
145          150          155          160
Ser Lys Val Gln Leu Gly Gly Val Gly Cys Pro Leu Gly Leu Ala Ser
          165          170          175
Thr Ile Thr His Gly Leu Tyr Lys Arg Thr Pro Arg Tyr Pro Glu Glu
          180          185          190
Leu Glu Leu Leu Val Ser Gln Gln Ser Pro Cys Gly Arg Ala Thr Ser
          195          200          205
Ser Ser Arg Val Trp Trp Asp Ser Ser Phe Leu Gly Gly Val Val His
          210          215          220
Leu Glu Ala Gly Glu Glu Val Val Val Arg Val Leu Asp Glu Arg Leu
225          230          235          240
Val Arg Leu Arg Asp Gly Thr Arg Ser Tyr Phe Gly Ala Phe Met Val
          245          250          255 256

```

```

<210> 1173
<211> 117
<212>Amino acid
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(117)
<223> X = any amino acid or stop code

```

```

<400> 1173
Gln Ser Ala Glu Leu Gly Pro Arg Arg Arg Glu Gly Ser Arg Arg Pro
 1          5          10          15
Ser Cys Thr Lys Ala Ser Lys Pro Trp Arg Arg Arg Pro Gly Gly Pro
          20          25          30
Thr Ser Gly Leu Gly Xaa Gly Pro Leu Ser Pro Gly Pro Tyr Gln Cys
          35          40          45
Arg Pro Ser Leu Pro Ala Gln Leu Tyr Pro Gln Ser Leu Met Ala Ala
          50          55          60
Ala Thr Leu Arg Thr Pro Thr Gln Val Ser Ala Ala Ser Ser Arg Pro
          65          70          75          80
His Thr Pro Ser Pro Thr His Val Leu Lys Pro Ser Val Arg Gly Ala
          85          90          95
Cys Ser Ser Pro Arg Cys Pro Gly Ser Gly Thr Leu Arg Arg Ser Trp
          100          105          110
Val Gly Pro Phe Phe
          115          117

```

```

<210> 1174
<211> 370
<212>Amino acid
<213> Homo sapiens

```

```

<400> 1174
Leu Trp Trp Pro Pro Leu Ser Arg His Ala Ala His Arg Gln Trp Pro

```

```

      1           5           10           15
Gly Pro Thr Ala Pro Arg Gly Leu Gly His Lys Val Lys Gly Arg Gly
      20           25           30
Ala Ser Pro Ala Ala Met Trp Ser Cys Ser Trp Phe Asn Gly Thr Gly
      35           40           45
Leu Val Glu Glu Leu Pro Ala Cys Gln Asp Leu Gln Leu Gly Leu Ser
      50           55           60
Leu Leu Ser Leu Leu Gly Leu Val Val Gly Val Pro Val Gly Leu Cys
      65           70           75           80
Tyr Asn Ala Leu Leu Val Leu Ala Asn Leu His Ser Lys Ala Ser Met
      85           90           95
Thr Met Pro Asp Val Tyr Phe Val Asn Met Ala Val Ala Gly Leu Val
      100           105           110
Leu Ser Ala Leu Ala Pro Val His Leu Leu Gly Pro Pro Ser Ser Arg
      115           120           125
Trp Ala Leu Trp Ser Val Gly Gly Glu Val His Val Ala Leu Gln Ile
      130           135           140
Pro Phe Asn Val Ser Ser Leu Val Ala Met Tyr Ser Thr Ala Leu Leu
      145           150           155           160
Ser Leu Asp His Tyr Ile Glu Arg Ala Leu Pro Arg Thr Tyr Met Ala
      165           170           175
Ser Val Tyr Asn Thr Arg His Val Cys Gly Phe Val Trp Gly Gly Ala
      180           185           190
Leu Leu Thr Ser Phe Ser Ser Leu Leu Phe Tyr Ile Cys Ser His Val
      195           200           205
Ser Thr Arg Ala Leu Glu Cys Ala Lys Met Gln Asn Ala Glu Ala Ala
      210           215           220
Asp Ala Thr Leu Val Phe Ile Gly Tyr Val Val Pro Ala Leu Ala Thr
      225           230           235           240
Leu Tyr Ala Leu Val Leu Leu Ser Arg Val Arg Arg Glu Asp Thr Pro
      245           250           255
Leu Asp Arg Asp Thr Gly Arg Leu Glu Pro Ser Ala His Arg Leu Leu
      260           265           270
Val Ala Thr Val Cys Thr Gln Phe Gly Leu Trp Thr Pro His Tyr Leu
      275           280           285
Ile Leu Leu Gly His Thr Val Ile Ile Ser Arg Gly Lys Pro Val Asp
      290           295           300
Ala His Tyr Leu Gly Leu Leu His Phe Val Lys Asp Phe Ser Lys Leu
      305           310           315           320
Leu Ala Phe Ser Ser Ser Phe Val Thr Pro Leu Leu Tyr Arg Tyr Met
      325           330           335
Asn Gln Ser Phe Pro Ser Lys Leu Gln Arg Leu Met Lys Lys Leu Pro
      340           345           350
Cys Gly Asp Arg His Cys Ser Pro Asp His Met Gly Val Gln Gln Val
      355           360           365
Leu Ala
      370

```

<210> 1175

<211> 145

<212>Amino acid

<213> Homo sapiens

<400> 1175

```

Ser Glu Ser Glu Leu Phe Thr Leu Met Pro Ser Leu Pro Thr Thr Asn
  1           5           10           15
Cys Val His Ser Leu Gln Met Ile Pro Pro Leu Ser Pro Ala Pro Asn
      20           25           30
Gln Glu Leu Val Leu Gly Leu Cys Tyr Met Ser Tyr Leu Ala Phe Leu

```

```

      35      40      45
Tyr Met Thr Phe Asp Phe Cys Cys Leu Tyr Phe Ser Thr Val Tyr Ala
   50      55      60
Pro Ser Phe Lys Tyr Ile Cys Val His Thr Asp Thr His Ile Cys Val
   65      70      75      80
Cys Val Cys Ile Tyr Leu Ser Ser Val Val Ser Lys Ser Ser Ala Glu
      85      90      95
Ala Asp Gly Val Leu Gln Pro Arg Arg His Pro Ala Ser Leu Leu Ile
      100      105      110
Val Phe Ala Thr Ser Ile Ser Glu Ser Ser Leu Leu Ile Phe Ser Phe
      115      120      125
Gln Lys Thr Glu Ala Lys Leu Ile Val Phe Ala Val Ser Leu Ala Ala
   130      135      140
Lys
145

```

```

<210> 1176
<211> 50
<212>Amino acid
<213> Homo sapiens

```

```

<400> 1176
Phe Phe Phe Leu Arg Gln Ser Leu Thr Leu Ser Pro Arg Leu Glu Cys
  1      5      10      15
Ser Gly Ala Thr Ser Ala Ser Pro Ser Ala Gly Ile Thr Gly Met Ser
      20      25      30
His His Ser Gln Pro Ile Val Asn Phe Leu Arg Ala Cys Ile Pro Ile
      35      40      45
Ser Lys
   50

```

```

<210> 1177
<211> 231
<212>Amino acid
<213> Homo sapiens

```

```

<400> 1177
Arg Gln His Ala Glu Glu Arg Gly Arg Arg Asn Pro Lys Thr Gly Leu
  1      5      10      15
Thr Leu Glu Arg Val Gly Pro Glu Ser Ser Pro Tyr Leu Leu Arg Arg
      20      25      30
His Gln Arg Gln Gly Gln Glu Gly Glu His Tyr His Ser Cys Val Gln
      35      40      45
Leu Ala Pro Thr Arg Gly Leu Glu Glu Ser Gly His Gly Pro Leu Ser
      50      55      60
Leu Ala Gly Gly Pro Arg Val Gly Gly Val Ala Ala Ala Thr Glu
      65      70      75      80
Ala Pro Arg Met Glu Trp Lys Val Lys Val Arg Ser Asp Gly Thr Arg
      85      90      95
Tyr Val Ala Lys Arg Pro Val Arg Asp Arg Leu Leu Lys Ala Arg Ala
      100      105      110
Leu Lys Ile Arg Glu Glu Arg Ser Gly Met Thr Thr Asp Asp Ala
      115      120      125
Val Ser Glu Met Lys Met Gly Arg Tyr Trp Ser Lys Glu Glu Arg Lys

```

```

      130              135              140
Gln His Leu Ile Arg Ala Arg Glu Gln Arg Lys Arg Arg Glu Phe Met
145              150              155              160
Met Gln Ser Arg Leu Glu Cys Leu Arg Glu Gln Gln Asn Gly Asp Ser
      165              170              175
Lys Pro Glu Leu Asn Ile Ile Ala Leu Ser His Arg Lys Thr Met Lys
      180              185              190
Lys Arg Asn Lys Lys Ile Leu Asp Asn Trp Ile Thr Ile Gln Glu Met
      195              200              205
Leu Ala His Gly Ala Arg Ser Ala Asp Gly Lys Arg Val Tyr Asn Pro
      210              215              220
Leu Leu Ser Val Thr Thr Val
225              230 231

```

```

<210> 1178
<211> 204
<212>Amino acid
<213> Homo sapiens

```

```

      <400> 1178
Ser Asp Arg Gly Cys Ser Ala Ala Ala Gly Arg Asn Met Thr Ala Val
  1              5              10              15
Gly Val Gln Ala Gln Arg Pro Leu Gly Gln Arg Gln Pro Arg Arg Ser
      20              25              30
Phe Phe Glu Ser Phe Ile Arg Thr Leu Ile Ile Thr Cys Val Ala Leu
      35              40              45
Ala Val Val Leu Ser Ser Val Ser Ile Cys Asp Gly His Trp Leu Leu
      50              55              60
Ala Glu Asp Arg Leu Phe Gly Leu Trp His Phe Cys Thr Thr Thr Asn
      65              70              75              80
Gln Ser Val Pro Ile Cys Phe Arg Asp Leu Gly Gln Ala His Val Pro
      85              90              95
Gly Leu Ala Val Gly Met Gly Leu Val Arg Ser Val Gly Ala Leu Ala
      100              105              110
Val Val Ala Ala Ile Phe Gly Leu Glu Phe Leu Met Val Ser Gln Leu
      115              120              125
Cys Glu Asp Lys His Ser Gln Cys Lys Trp Val Met Gly Ser Ile Leu
      130              135              140
Leu Leu Val Ser Phe Val Leu Ser Ser Gly Gly Leu Leu Gly Phe Val
      145              150              155              160
Ile Leu Leu Arg Asn Gln Val Thr Leu Ile Gly Phe Thr Leu Met Phe
      165              170              175
Trp Cys Glu Phe Thr Ala Ser Phe Leu Leu Phe Leu Asn Ala Ile Ser
      180              185              190
Gly Leu His Ile Asn Ser Ile Thr His Pro Trp Glu
      195              200              204

```

```

<210> 1179
<211> 179
<212>Amino acid
<213> Homo sapiens

```

```

      <400> 1179
Gln Ile Leu Pro Asn Leu Tyr Leu Gly Ser Ala Arg Asp Ser Ala Asn

```

```

      1           5           10           15
Leu Glu Ser Leu Ala Lys Leu Gly Ile Arg Tyr Ile Leu Asn Val Thr
      20           25           30
Pro Asn Leu Pro Asn Phe Phe Glu Lys Asn Gly Asp Phe His Tyr Lys
      35           40           45
Gln Ile Pro Ile Ser Asp His Trp Ser Gln Asn Leu Ser Arg Phe Phe
      50           55           60
Pro Glu Ala Ile Glu Phe Ile Asp Glu Ala Leu Ser Gln Asn Cys Gly
      65           70           75           80
Val Leu Val His Cys Leu Ala Gly Val Ser Arg Ser Val Thr Val Thr
      85           90           95
Val Ala Tyr Leu Met Gln Lys Leu His Leu Ser Leu Asn Asp Ala Tyr
      100           105           110
Asp Leu Val Lys Arg Lys Lys Ser Asn Ile Ser Pro Asn Phe Asn Phe
      115           120           125
Met Gly Gln Leu Leu Asp Phe Glu Arg Ser Leu Arg Leu Glu Glu Arg
      130           135           140
His Ser Gln Glu Gln Gly Ser Gly Gly Gln Ala Ser Ala Ala Ser Asn
      145           150           155           160
Pro Pro Ser Phe Phe Thr Thr Pro Thr Ser Asp Gly Ala Phe Glu Leu
      165           170           175
Ala Pro Thr
      179

```

<210> 1180
 <211> 159
 <212>Amino acid
 <213> Homo sapiens

```

      <400> 1180
Arg Lys Ser Leu His Glu Asn Lys Leu Lys Arg Leu Gln Glu Lys Val
      1           5           10           15
Glu Val Leu Glu Ala Lys Lys Glu Glu Leu Glu Thr Glu Asn Gln Val
      20           25           30
Leu Asn Arg Gln Asn Val Pro Phe Glu Asp Tyr Thr Arg Leu Gln Lys
      35           40           45
Arg Leu Lys Asp Ile Gln Arg Arg His Asn Glu Phe Arg Ser Leu Ile
      50           55           60
Leu Val Pro Asn Met Pro Pro Thr Ala Ser Ile Asn Pro Val Ser Phe
      65           70           75           80
Gln Ser Ser Ala Met Gly Ser Lys His Gly Thr Thr Ile Ser Ser Ser
      85           90           95
Tyr Ala Gly Gly Thr Thr Ser Lys Gly Thr Leu Ser Thr Ser Gln Lys
      100           105           110
Thr Arg Arg Thr Gly Asn Asn Thr Lys Lys Thr Thr Arg Gly Thr Trp
      115           120           125
Ile Phe Arg Arg Met Met Phe Leu Glu Asn Arg Gln Ile Lys Arg Gly
      130           135           140
Glu Val Gly Asp Ser Val Lys Leu Asp Ile Leu Thr Cys Gly Ile
      145           150           155           159

```

<210> 1181
 <211> 328
 <212>Amino acid
 <213> Homo sapiens

<220>
 <221> misc_feature

<222> (1)...(328)

<223> X = any amino acid or stop code

<400> 1181

```

Gly Arg Pro Gly Ala Gly Ala Ser Glu Leu Phe Pro Ser Val Thr Thr
 1           5           10           15
Asp Leu Ser Val Ser Lys Gln Asn Ala Cys Leu Thr Cys Val Asp Phe
      20           25           30
Val Thr Val His Val Cys Met Gly Phe Trp Gly Ile Gly Pro Gly Ala
      35           40           45
Leu Ser Thr Ser Cys Ile Pro Tyr Pro Leu Ser His Gly Pro Gly Ser
      50           55           60
Val Lys Ala Glu Met Leu His Met Tyr Ser Gln Lys Asp Pro Leu Ile
      65           70           75           80
Leu Cys Val Arg Leu Ala Val Leu Leu Ala Val Thr Leu Thr Val Pro
      85           90           95
Val Val Leu Phe Pro Ile Arg Arg Ala Leu Gln Gln Leu Leu Phe Pro
      100          105          110
Gly Lys Ala Phe Ser Trp Pro Arg His Val Ala Ile Ala Leu Ile Leu
      115          120          125
Leu Val Leu Val Asn Val Leu Val Ile Cys Val Pro Thr Ile Arg Asp
      130          135          140
Ile Phe Gly Val Ile Gly Ser Thr Ser Ala Pro Ser Leu Ile Phe Ile
      145          150          155          160
Leu Pro Ser Ile Phe Tyr Leu Arg Ile Val Pro Ser Glu Val Glu Pro
      165          170          175
Phe Leu Ser Trp Pro Lys Ile Gln Ala Leu Cys Phe Gly Val Leu Gly
      180          185          190
Val Leu Phe Met Ala Val Ser Leu Gly Phe Met Phe Ala Asn Trp Ala
      195          200          205
Thr Gly Gln Ser Arg Met Ser Gly His Xaa Ser Gly Pro Ala Gly Pro
      210          215          220
Gly Pro Cys Ala His Ala His Gly Gly Val Arg Ala Ala Pro Xaa Gly
      225          230          235          240
Pro Ser Cys Pro Thr Cys Gly Gly Gly Trp Phe Pro Xaa Thr Trp Leu
      245          250          255
Ser Glu Ala Gly Asp Ser Arg Gly Cys Arg Leu Ala His Phe Pro Pro
      260          265          270
Pro Gln Gly Cys Gln Ala Trp Ile Met Ala Leu Ile Pro Thr Pro Thr
      275          280          285
Pro Trp Glu Glu Glu Glu Glu Glu Glu Glu Glu Glu Glu Glu Glu
      290          295          300
Glu Glu Glu Glu Glu Glu Ala Arg Ser Trp Trp Ser Leu Cys Pro Ala
      305          310          315          320
Gln Ser Ser Leu Pro Pro Pro Gly
      325          328

```

<210> 1182

<211> 144

<212> Amino acid

<213> Homo sapiens

<400> 1182

```

Ile Asn Glu Leu Arg Tyr His Leu Glu Glu Ser Arg Asp Lys Asn Val
 1           5           10           15

```

```

Leu Leu Cys Leu Glu Glu Arg Asp Trp Asp Pro Gly Leu Ala Ile Ile
      20      25      30
Asp Asn Leu Met Gln Ser Ile Asn Gln Ser Lys Lys Thr Val Phe Val
      35      40      45
Leu Thr Lys Lys Tyr Ala Lys Ser Trp Asn Phe Lys Thr Ala Phe Tyr
      50      55      60
Leu Ala Leu Gln Arg Leu Met Asp Glu Asn Met Asp Val Ile Ile Phe
      65      70      75      80
Ile Leu Leu Glu Pro Val Leu Gln His Ser Gln Tyr Leu Arg Leu Arg
      85      90      95
Gln Arg Ile Cys Lys Ser Ser Ile Leu Gln Trp Pro Asp Asn Pro Lys
      100      105      110
Ala Glu Gly Leu Phe Trp Gln Thr Leu Arg Asn Val Val Leu Thr Glu
      115      120      125
Asn Asp Ser Arg Tyr Asn Asn Met Tyr Val Asp Ser Ile Lys Gln Tyr
      130      135      140      144

```

<210> 1183
 <211> 484
 <212>Amino acid
 <213> Homo sapiens

```

<400> 1183
Asp Asp Pro Ile Lys Thr Ser Trp Thr Pro Pro Arg Tyr Val Leu Ser
 1      5      10      15
Met Ser Glu Glu Arg His Glu Arg Val Arg Lys Lys Tyr His Ile Leu
      20      25      30
Val Glu Gly Asp Gly Ile Pro Pro Pro Ile Lys Ser Phe Lys Glu Met
      35      40      45
Lys Phe Pro Ala Ala Ile Leu Arg Gly Leu Lys Lys Lys Gly Ile His
      50      55      60
His Pro Thr Pro Ile Gln Ile Gln Gly Ile Pro Thr Ile Leu Ser Gly
      65      70      75      80
Arg Asp Met Ile Gly Ile Ala Phe Thr Gly Ser Gly Lys Thr Leu Val
      85      90      95
Phe Thr Leu Pro Val Ile Met Phe Cys Leu Glu Gln Glu Lys Arg Leu
      100      105      110
Pro Phe Ser Lys Arg Glu Gly Pro Tyr Gly Leu Ile Ile Cys Pro Ser
      115      120      125
Arg Glu Leu Ala Arg Gln Thr His Gly Ile Leu Glu Tyr Tyr Cys Arg
      130      135      140
Leu Leu Gln Glu Asp Ser Ser Pro Leu Leu Arg Cys Ala Leu Cys Ile
      145      150      155      160
Gly Gly Met Ser Val Lys Glu Gln Met Glu Thr Ile Arg His Gly Val
      165      170      175
His Met Met Val Ala Thr Pro Gly Arg Leu Met Asp Leu Leu Gln Lys
      180      185      190
Lys Met Val Ser Leu Asp Ile Cys Arg Tyr Leu Ala Leu Asp Glu Ala
      195      200      205
Asp Arg Met Ile Asp Met Gly Phe Glu Gly Asp Ile Arg Thr Ile Phe
      210      215      220
Ser Tyr Phe Lys Gly Gln Arg Gln Thr Leu Leu Phe Ser Ala Thr Met
      225      230      235      240
Pro Lys Lys Ile Gln Asn Phe Ala Lys Ser Ala Leu Val Lys Pro Val
      245      250      255
Thr Ile Asn Val Gly Arg Ala Gly Ala Ser Leu Asp Val Ile Gln
      260      265      270

```

Glu Val Glu Tyr Val Lys Glu Glu Ala Lys Met Val Tyr Leu Leu Glu
 275 280 285
 Cys Leu Gln Lys Thr Pro Pro Val Leu Ile Phe Ala Glu Lys Lys
 290 295 300
 Ala Asp Val Asp Ala Ile His Glu Tyr Leu Leu Lys Gly Val Glu
 305 310 315 320
 Ala Val Ala Ile His Gly Gly Lys Asp Gln Glu Glu Arg Thr Lys Ala
 325 330 335
 Ile Glu Ala Phe Arg Glu Gly Lys Lys Asp Val Leu Val Ala Thr Asp
 340 345 350
 Val Ala Ser Lys Gly Leu Asp Phe Pro Ala Ile Gln His Val Ile Asn
 355 360 365
 Tyr Asp Met Pro Glu Glu Ile Glu Asn Tyr Val His Arg Ile Gly Arg
 370 375 380
 Thr Gly Arg Ser Gly Asn Thr Gly Ile Ala Thr Thr Phe Ile Asn Lys
 385 390 395 400
 Ala Cys Asp Glu Ser Val Leu Met Asp Leu Lys Ala Leu Leu Leu Glu
 405 410 415
 Ala Lys Gln Lys Val Pro Pro Val Leu Gln Val Leu His Cys Gly Asp
 420 425 430
 Glu Ser Met Leu Asp Ile Gly Gly Glu Arg Gly Cys Ala Phe Cys Gly
 435 440 445
 Gly Leu Gly His Arg Ile Thr Asp Cys Pro Lys Leu Glu Ala Met Gln
 450 455 460
 Thr Lys Gln Val Ser Asn Ile Gly Arg Lys Asp Tyr Leu Ala His Ser
 465 470 475 480
 Ser Met Asp Phe
 484

<210> 1184
 <211> 125
 <212> Amino acid
 <213> Homo sapiens

<400> 1184
 Ile Glu Thr Thr Gln Pro Ser Glu Asp Thr Asn Ala Asn Ser Gln Asp
 1 5 10 15
 Asn Ser Met Gln Pro Glu Thr Ser Ser Gln Gln Gln Leu Leu Ser Pro
 20 25 30
 Thr Leu Ser Asp Arg Gly Gly Ser Arg Gln Asp Ala Ala Asp Ala Gly
 35 40 45
 Lys Pro Gln Arg Lys Phe Gly Gln Trp Arg Leu Pro Ser Ala Pro Lys
 50 55 60
 Pro Ile Ser His Ser Val Ser Ser Val Asn Leu Arg Phe Gly Gly Arg
 65 70 75 80
 Thr Thr Met Lys Ser Val Val Cys Lys Met Asn Pro Met Thr Asp Ala
 85 90 95
 Ala Ser Cys Gly Ser Glu Val Lys Lys Trp Trp Thr Arg Gln Leu Thr
 100 105 110
 Val Glu Ser Asp Glu Ser Gly Asp Asp Leu Leu Asp Ile
 115 120 125

<210> 1185
 <211> 73
 <212> Amino acid
 <213> Homo sapiens

<400> 1185

```

Asn Asp Arg Phe Ser Ala Cys Tyr Phe Thr Leu Lys Leu Lys Glu Ala
 1          5          10          15
Ala Val Arg Gln Arg Glu Ala Leu Lys Lys Leu Thr Lys Asn Ile Ala
          20          25          30
Thr Asp Ser Tyr Ile Ser Val Asn Leu Arg Asp Val Tyr Ala Arg Ser
          35          40          45
Ile Met Glu Met Leu Arg Leu Lys Gly Arg Glu Arg Ala Ser Thr Arg
          50          55          60
Ser Ser Gly Gly Asp Asp Phe Trp Phe
65          70          73

```

<210> 1186

<211> 343

<212>Amino acid

<213> Homo sapiens

<400> 1186

```

Phe Thr Val Phe Ile Leu Gly Ile Thr Ile Arg Pro Leu Val Glu Phe
 1          5          10          15
Leu Asp Val Lys Arg Ser Asn Lys Lys Gln Gln Ala Val Ser Glu Glu
          20          25          30
Ile Tyr Cys Arg Leu Phe Asp His Val Lys Thr Gly Ile Glu Asp Val
          35          40          45
Cys Gly His Trp Gly His Asn Phe Trp Arg Asp Lys Phe Lys Lys Phe
          50          55          60
Asp Asp Lys Tyr Leu Arg Lys Leu Leu Ile Arg Glu Asn Gln Pro Lys
          65          70          75          80
Ser Ser Ile Val Ser Leu Tyr Lys Lys Leu Glu Ile Lys His Ala Ile
          85          90          95
Glu Met Ala Glu Thr Gly Met Ile Ser Thr Val Pro Thr Phe Ala Ser
          100          105          110
Leu Asn Asp Cys Arg Glu Glu Lys Ile Arg Lys Val Thr Ser Ser Glu
          115          120          125
Thr Asp Glu Ile Arg Glu Leu Leu Ser Arg Asn Leu Tyr Gln Ile Arg
          130          135          140
Gln Arg Thr Leu Ser Tyr Asn Arg His Ser Leu Thr Ala Asp Thr Ser
          145          150          155          160
Glu Arg Gln Ala Lys Glu Ile Leu Ile Arg Arg Arg His Ser Leu Arg
          165          170          175
Glu Ser Ile Arg Lys Asp Ser Ser Leu Asn Arg Glu His Arg Ala Ser
          180          185          190
Thr Ser Thr Ser Arg Tyr Leu Ser Leu Pro Lys Asn Thr Lys Leu Pro
          195          200          205
Glu Lys Leu Gln Lys Arg Arg Thr Ile Ser Ile Ala Asp Gly Asn Ser
          210          215          220
Ser Asp Ser Asp Ala Asp Ala Gly Thr Thr Val Leu Asn Leu Gln Pro
          225          230          235          240
Arg Ala Arg Arg Phe Leu Pro Glu Gln Phe Ser Lys Lys Ser Pro Gln
          245          250          255
Ser Tyr Lys Met Glu Trp Lys Asn Glu Val Asp Val Asp Ser Gly Arg
          260          265          270
Asp Met Pro Ser Thr Pro Pro Thr Pro His Ser Arg Glu Lys Gly Thr
          275          280          285
Gln Thr Ser Gly Leu Leu Gln Gln Pro Leu Leu Ser Lys Asp Gln Ser
          290          295          300

```

Gly Ser Glu Arg Glu Asp Ser Leu Thr Glu Gly Ile Pro Pro Lys Pro
 305 310 315 320
 Pro Pro Arg Leu Val Trp Arg Ala Ser Glu Pro Gly Ser Arg Lys Ala
 325 330 335
 Arg Phe Gly Ser Glu Lys Pro
 340 343

<210> 1187
 <211> 146
 <212> Amino acid
 <213> Homo sapiens

<400> 1187
 His Glu Glu Ala Ser Gly Leu Ser Val Trp Met Gly Lys Gln Met Glu
 1 5 10 15
 Pro Leu His Ala Val Pro Pro Ala Ala Ile Thr Leu Ile Leu Ser Leu
 20 25 30
 Leu Val Ala Val Phe Thr Glu Cys Thr Ser Asn Val Ala Thr Thr Thr
 35 40 45
 Leu Phe Leu Pro Ile Phe Ala Ser Met Ser Arg Ser Ile Gly Leu Asn
 50 55 60
 Pro Leu Tyr Ile Met Leu Pro Cys Thr Leu Ser Ala Ser Phe Ala Phe
 65 70 75 80
 Met Leu Pro Val Ala Thr Pro Pro Asn Ala Ile Val Phe Thr Tyr Gly
 85 90 95
 His Leu Lys Val Ala Asp Met Val Lys Thr Gly Val Ile Met Asn Ile
 100 105 110
 Ile Gly Val Phe Cys Val Phe Leu Ala Val Asn Thr Trp Gly Arg Ala
 115 120 125
 Ile Phe Asp Leu Asp His Phe Pro Asp Trp Ala Asn Val Thr His Ile
 130 135 140
 Glu Thr
 145 146

<210> 1188
 <211> 40
 <212> Amino acid
 <213> Homo sapiens

<400> 1188
 His Glu Leu Glu Asn Asn Trp Leu Gln His Glu Lys Ala Pro Thr Glu
 1 5 10 15
 Glu Gly Lys Lys Glu Leu Leu Ala Leu Ser Asn Ala Asn Pro Ser Leu
 20 25 30
 Leu Glu Arg His Cys Ala Tyr Leu
 35 40

<210> 1189
 <211> 62
 <212> Amino acid
 <213> Homo sapiens

<400> 1189

Gly Asn Ile Ile Tyr Met Tyr Met Gln Pro Gly Ala Arg Ser Ser Gln
 1 5 10 15
 Asp Gln Gly Lys Phe Leu Thr Leu Phe Tyr Asn Ile Val Thr Pro Leu
 20 25 30
 Leu Asn Pro Leu Ile Tyr Thr Leu Arg Asn Arg Glu Val Lys Gly Ala
 35 40 45
 Leu Gly Arg Leu Leu Leu Gly Lys Arg Glu Leu Gly Lys Glu
 50 55 60 62

<210> 1190

<211> 623

<212> Amino acid

<213> Homo sapiens

<400> 1190

Pro Leu Glu Gln Arg Ser Asn Cys Arg Val Asp Pro Arg Val Arg Thr
 1 5 10 15
 His Thr Met Ala Ser Asp Thr Ser Ser Leu Val Gln Ser His Thr Tyr
 20 25 30
 Lys Lys Arg Glu Pro Ala Asp Val Pro Tyr Gln Thr Gly Gln Leu His
 35 40 45
 Pro Ala Ile Arg Val Ala Asp Leu Leu Gln His Ile Thr Gln Met Lys
 50 55 60
 Cys Ala Glu Gly Tyr Gly Phe Lys Glu Glu Tyr Glu Ser Phe Phe Glu
 65 70 75 80
 Gly Gln Ser Ala Pro Trp Asp Ser Ala Lys Lys Asp Glu Asn Arg Met
 85 90 95
 Lys Asn Arg Tyr Gly Asn Ile Ile Ala Tyr Asp His Ser Arg Val Arg
 100 105 110
 Leu Gln Thr Ile Glu Gly Asp Thr Asn Ser Asp Tyr Ile Asn Gly Asn
 115 120 125
 Tyr Ile Asp Gly Tyr His Arg Pro Asn His Tyr Ile Ala Thr Gln Gly
 130 135 140
 Pro Met Gln Glu Thr Ile Tyr Asp Phe Trp Arg Met Val Trp His Glu
 145 150 155 160
 Asn Thr Ala Ser Ile Ile Met Val Thr Asn Leu Val Glu Val Gly Arg
 165 170 175
 Val Lys Cys Cys Lys Tyr Trp Pro Asp Asp Thr Glu Ile Tyr Lys Asp
 180 185 190
 Ile Lys Val Thr Leu Ile Glu Thr Glu Leu Leu Ala Glu Tyr Val Ile
 195 200 205
 Arg Thr Phe Ala Val Glu Lys Arg Gly Val His Glu Ile Arg Glu Ile
 210 215 220
 Arg Gln Phe His Phe Thr Gly Trp Pro Asp His Gly Val Pro Tyr His
 225 230 235 240
 Ala Thr Gly Leu Leu Gly Phe Val Arg Gln Val Lys Ser Lys Ser Pro
 245 250 255
 Pro Ser Ala Gly Pro Leu Val Val His Cys Ser Ala Gly Ala Gly Arg
 260 265 270
 Thr Gly Cys Phe Ile Val Ile Asp Ile Met Leu Asp Met Ala Glu Arg
 275 280 285
 Glu Gly Val Val Asp Ile Tyr Asn Cys Val Arg Glu Leu Arg Ser Arg
 290 295 300
 Arg Val Asn Met Val Gln Thr Glu Glu Gln Tyr Val Phe Ile His Asp
 305 310 315 320

Ala Ile Leu Glu Ala Cys Leu Cys Gly Asp Thr Ser Val Pro Ala Ser
 325 330 335
 Gln Val Arg Ser Leu Tyr Tyr Asp Met Asn Lys Leu Asp Pro Gln Thr
 340 345 350
 Asn Ser Ser Gln Ile Lys Glu Glu Phe Arg Thr Leu Asn Met Val Thr
 355 360 365
 Pro Thr Leu Arg Val Glu Asp Cys Ser Ile Ala Leu Leu Pro Arg Asn
 370 375 380
 His Glu Lys Asn Arg Cys Met Asp Ile Leu Pro Pro Asp Arg Cys Leu
 385 390 395 400
 Pro Phe Leu Ile Thr Ile Asp Gly Glu Ser Ser Asn Tyr Ile Asn Ala
 405 410 415
 Ala Leu Met Asp Ser Tyr Lys Gln Pro Ser Ala Phe Ile Val Thr Gln
 420 425 430
 His Pro Leu Pro Asn Thr Val Lys Asp Phe Trp Arg Leu Val Leu Asp
 435 440 445
 Tyr His Cys Thr Ser Val Val Met Leu Asn Asp Val Asp Pro Ala Gln
 450 455 460
 Leu Cys Pro Gln Tyr Trp Pro Glu Asn Gly Val His Arg His Gly Pro
 465 470 475 480
 Ile Gln Val Glu Phe Val Ser Ala Asp Leu Glu Glu Asp Ile Ile Ser
 485 490 495
 Arg Ile Phe Arg Ile Tyr Asn Ala Ala Arg Pro Gln Asp Gly Tyr Arg
 500 505 510
 Met Val Gln Gln Phe Gln Phe Leu Gly Trp Pro Met Tyr Arg Asp Thr
 515 520 525
 Pro Val Ser Lys Arg Ser Phe Leu Lys Leu Ile Arg Gln Val Asp Lys
 530 535 540
 Trp Gln Glu Glu Tyr Asn Gly Gly Glu Gly Arg Thr Val Val His Cys
 545 550 555 560
 Leu Asn Gly Gly Gly Arg Ser Gly Thr Phe Cys Ala Ile Ser Ile Val
 565 570 575
 Cys Glu Met Leu Arg His Gln Arg Thr Val Asp Val Phe His Ala Val
 580 585 590
 Lys Thr Leu Arg Asn Asn Lys Pro Asn Met Val Asp Leu Leu Asp Gln
 595 600 605
 Tyr Lys Phe Cys Tyr Glu Val Ala Leu Glu Tyr Leu Asn Ser Gly
 610 615 620 623

<210> 1191
 <211> 86
 <212> Amino acid
 <213> Homo sapiens

<400> 1191
 Pro Leu Thr Tyr Asn Lys Lys Tyr Thr Tyr Pro Trp Trp Gly Asp Ala
 1 5 10 15
 Leu Gly Trp Leu Leu Ala Leu Ser Ser Met Val Cys Ile Pro Ala Trp
 20 25 30
 Ser Leu Tyr Arg Leu Gly Thr Leu Lys Gly Pro Phe Arg Glu Arg Ile
 35 40 45
 Arg Gln Leu Met Cys Pro Ala Glu Asp Leu Pro Gln Arg Asn Pro Ala
 50 55 60
 Gly Pro Ser Ala Pro Ala Thr Pro Arg Thr Ser Leu Leu Arg Leu Thr
 65 70 75 80
 Glu Leu Glu Ser His Cys
 85 86

<210> 1192
 <211> 109
 <212>Amino acid
 <213> Homo sapiens

<400> 1192
 Thr Leu Ser Glu Ser Gly Ala Leu Phe Ser Leu Gly Pro Pro Pro Leu
 1 5 10 15
 Ser Leu Lys Ser Ser Ser Ala Pro Arg Pro Tyr Ser Thr Leu Arg Asp
 20 25 30
 Cys Leu Glu His Phe Ala Glu Leu Phe Asp Leu Gly Phe Pro Asn Pro
 35 40 45
 Leu Ala Glu Arg Ile Ile Phe Glu Thr His Gln Ile His Phe Ala Asn
 50 55 60
 Cys Ser Leu Gly Gln Pro Thr Phe Ser Asp Pro Pro Glu Asp Val Leu
 65 70 75 80
 Leu Ala Met Ile Ile Ala Pro Ile Cys Leu Ile Pro Phe Leu Ile Thr
 85 90 95
 Leu Val Val Trp Arg Ser Lys Asp Ser Glu Ala Gln Ala
 100 105 109

<210> 1193
 <211> 257
 <212>Amino acid
 <213> Homo sapiens

<400> 1193
 Cys Glu Glu Arg Glu Gln Glu Lys Asp Asp Val Asp Val Ala Leu Leu
 1 5 10 15
 Pro Thr Ile Val Glu Lys Val Ile Leu Pro Lys Leu Thr Val Ile Ala
 20 25 30
 Glu Asn Met Trp Asp Pro Phe Ser Thr Thr Gln Thr Ser Arg Met Val
 35 40 45
 Gly Ile Thr Leu Lys Leu Ile Asn Gly Tyr Pro Ser Val Val Asn Ala
 50 55 60
 Glu Asn Lys Asn Thr Gln Val Tyr Leu Lys Ala Leu Leu Leu Arg Met
 65 70 75 80
 Arg Arg Thr Leu Asp Asp Val Phe Met Pro Leu Tyr Pro Lys Asn
 85 90 95
 Val Leu Glu Asn Lys Asn Ser Gly Pro Tyr Leu Phe Phe Gln Arg Gln
 100 105 110
 Phe Trp Ser Ser Val Lys Leu Leu Gly Asn Phe Leu Gln Trp Tyr Gly
 115 120 125
 Ile Phe Ser Asn Lys Thr Leu Gln Glu Leu Ser Ile Asp Gly Leu Leu
 130 135 140
 Asn Arg Tyr Ile Leu Met Ala Phe Gln Asn Ser Glu Tyr Gly Asp Asp
 145 150 155 160
 Ser Ile Lys Lys Ala Gln Asn Val Ile Asn Cys Phe Pro Lys Gln Trp
 165 170 175
 Phe Met Asn Leu Lys Gly Glu Arg Thr Ile Ser Gln Leu Glu Asn Phe
 180 185 190
 Cys Arg Tyr Leu Val His Leu Ala Asp Thr Ile Tyr Arg Asn Ser Ile
 195 200 205
 Gly Cys Ser Asp Val Glu Lys Arg Asn Ala Arg Glu Asn Ile Lys Gln
 210 215 220

Ile Val Lys Leu Leu Ala Ser Val Arg Ala Leu Asp His Ala Met Ser
 225 230 235 240
 Val Ala Ser Asp His Asn Val Lys Glu Phe Lys Ser Leu Ile Glu Gly
 245 250 255
 Lys
 257

<210> 1194
 <211> 416
 <212> Amino acid
 <213> Homo sapiens

<400> 1194
 Thr Pro Phe Cys Phe Leu Cys Ser Leu Val Phe Arg Ser Arg Val Trp
 1 5 10 15
 Ala Glu Pro Cys Leu Ile Asp Ala Ala Lys Glu Glu Tyr Asn Gly Val
 20 25 30
 Ile Glu Glu Phe Leu Ala Thr Gly Glu Lys Leu Phe Gly Pro Tyr Val
 35 40 45
 Trp Gly Arg Tyr Asp Leu Leu Phe Met Pro Pro Ser Phe Pro Phe Gly
 50 55 60
 Gly Met Glu Asn Pro Cys Leu Thr Phe Val Thr Pro Cys Leu Leu Ala
 65 70 75 80
 Gly Asp Arg Ser Leu Ala Asp Val Ile Ile His Glu Ile Ser His Ser
 85 90 95
 Trp Phe Gly Asn Leu Val Thr Asn Ala Asn Trp Gly Glu Phe Trp Leu
 100 105 110
 Asn Glu Gly Phe Thr Met Tyr Ala Gln Arg Arg Ile Ser Thr Ile Leu
 115 120 125
 Phe Gly Ala Ala Tyr Thr Cys Leu Glu Ala Ala Thr Gly Arg Ala Leu
 130 135 140
 Leu Arg Gln His Met Asp Ile Thr Gly Glu Glu Asn Pro Leu Asn Lys
 145 150 155 160
 Leu Arg Val Lys Ile Glu Pro Gly Val Asp Pro Asp Asp Thr Tyr Asn
 165 170 175
 Glu Thr Pro Tyr Glu Lys Gly Phe Cys Phe Val Ser Tyr Leu Ala His
 180 185 190
 Leu Val Gly Asp Gln Asp Gln Phe Asp Ser Phe Leu Lys Ala Tyr Val
 195 200 205
 His Glu Phe Lys Phe Arg Ser Ile Leu Ala Asp Asp Phe Leu Asp Phe
 210 215 220
 Tyr Leu Glu Tyr Phe Pro Glu Leu Lys Lys Lys Arg Val Asp Ile Ile
 225 230 235 240
 Pro Gly Phe Glu Phe Asp Arg Trp Leu Asn Thr Pro Gly Trp Pro Pro
 245 250 255
 Tyr Leu Pro Asp Leu Ser Pro Gly Asp Ser Leu Met Lys Pro Ala Glu
 260 265 270
 Glu Leu Ala Gln Leu Trp Ala Ala Glu Glu Leu Asp Met Lys Ala Ile
 275 280 285
 Glu Ala Val Ala Ile Ser Pro Trp Lys Thr Tyr Gln Leu Val Tyr Phe
 290 295 300
 Leu Asp Lys Ile Leu Gln Lys Ser Pro Leu Pro Pro Gly Asn Val Lys
 305 310 315 320
 Lys Leu Gly Asp Thr Tyr Pro Ser Ile Ser Asn Ala Arg Asn Ala Glu
 325 330 335
 Leu Arg Leu Arg Trp Gly Gln Ile Val Leu Lys Asn Asp His Gln Glu
 340 345 350
 Asp Phe Trp Lys Val Lys Glu Phe Leu His Asn Gln Gly Lys Gln Lys
 355 360 365

Tyr Thr Leu Pro Leu Tyr His Ala Met Met Gly Gly Ser Glu Val Ala
 370 375 380
 Gln Thr Leu Ala Lys Glu Thr Phe Ala Ser Thr Ala Ser Gln Leu His
 385 390 395 400
 Ser Asn Val Val Asn Tyr Val Gln Gln Ile Val Ala Pro Lys Gly Ser
 405 410 415 416

<210> 1195
 <211> 295
 <212> Amino acid
 <213> Homo sapiens

<400> 1195
 Cys Ala Ser Gly Ser Ser Gly Trp Arg Pro Val Leu Trp Ala Gly Ala
 1 5 10 15
 Phe Thr Met Ala Ser Ala Glu Leu Asp Tyr Thr Ile Glu Ile Pro Asp
 20 25 30
 Gln Pro Cys Trp Ser Gln Lys Asn Ser Pro Ser Pro Gly Gly Lys Glu
 35 40 45
 Ala Glu Thr Arg Gln Pro Val Val Ile Leu Leu Gly Trp Gly Gly Cys
 50 55 60
 Lys Asp Lys Asn Leu Ala Lys Tyr Ser Ala Ile Tyr His Lys Arg Gly
 65 70 75 80
 Cys Ile Val Ile Arg Tyr Thr Ala Pro Trp His Met Val Phe Phe Ser
 85 90 95
 Glu Ser Leu Gly Ile Pro Ser Leu Arg Val Leu Ala Gln Lys Leu Leu
 100 105 110
 Glu Leu Leu Phe Asp Tyr Glu Ile Glu Lys Glu Pro Leu Leu Phe His
 115 120 125
 Val Phe Ser Asn Gly Gly Val Met Leu Tyr Arg Tyr Val Leu Glu Leu
 130 135 140
 Leu Gln Thr Arg Arg Phe Cys Arg Leu Arg Val Val Gly Thr Ile Phe
 145 150 155 160
 Asp Ser Ala Pro Gly Asp Ser Asn Leu Val Gly Ala Leu Arg Ala Leu
 165 170 175
 Ala Ala Ile Leu Glu Arg Arg Ala Ala Met Leu Arg Leu Leu Leu Leu
 180 185 190
 Val Ala Phe Ala Leu Val Val Val Leu Phe His Val Leu Leu Ala Pro
 195 200 205
 Ile Thr Ala Leu Phe His Thr His Phe Tyr Asp Arg Leu Gln Asp Ala
 210 215 220
 Gly Ser Arg Trp Pro Glu Leu Tyr Leu Tyr Ser Arg Ala Asp Glu Val
 225 230 235 240
 Val Leu Ala Arg Asp Ile Glu Arg Met Val Glu Ala Arg Leu Ala Arg
 245 250 255
 Arg Val Leu Ala Arg Ser Val Asp Phe Val Ser Ser Ala His Val Ser
 260 265 270
 His Leu Arg Asp Tyr Pro Thr Tyr Thr Ser Leu Cys Val Asp Phe
 275 280 285
 Met Arg Asn Trp Val Arg Cys
 290 295

<210> 1196
 <211> 97
 <212> Amino acid
 <213> Homo sapiens

<400> 1196
 Pro Arg Val Arg Asp Arg Leu Pro Ser Thr Gly Val Arg Asp Arg Lys
 1 5 10 15
 Gly Asp Lys Pro Trp Lys Glu Ser Gly Gly Ser Val Glu Ala Pro Arg
 20 25 30
 Met Gly Phe Thr His Pro Pro Gly His Leu Ser Gly Cys Gln Ser Ser
 35 40 45
 Leu Ala Ser Gly Glu Thr Gly Thr Gly Ser Ala Asp Pro Pro Gly Gly
 50 55 60
 Pro Arg Pro Gly Leu Thr Arg Arg Ala Pro Val Lys Asp Thr Pro Gly
 65 70 75 80
 Arg Ala Pro Ala Ala Asp Ala Ala Pro Ala Gly Pro Ser Ser Cys Leu
 85 90 95
 Gly
 97

<210> 1197
 <211> 204
 <212> Amino acid
 <213> Homo sapiens

<400> 1197
 Gln Gly Arg Thr Ser Cys Ile Gly Leu Tyr Thr Tyr Gln Arg Arg Ile
 1 5 10 15
 Cys Lys Tyr Arg Asp Gln Tyr Asn Trp Phe Phe Leu Ala Arg Pro Thr
 20 25 30
 Thr Phe Ala Ile Ile Glu Asn Leu Lys Tyr Phe Leu Leu Lys Lys Asp
 35 40 45
 Pro Ser Gln Pro Phe Tyr Leu Gly His Thr Ile Lys Ser Gly Asp Leu
 50 55 60
 Glu Tyr Val Gly Met Glu Gly Gly Ile Val Leu Ser Val Glu Ser Met
 65 70 75 80
 Lys Arg Leu Asn Ser Leu Leu Asn Ile Pro Glu Lys Cys Pro Glu Gln
 85 90 95
 Gly Gly Met Ile Trp Lys Ile Ser Glu Asp Lys Gln Leu Ala Val Cys
 100 105 110
 Leu Lys Tyr Ala Gly Val Phe Ala Glu Asn Ala Glu Asp Ala Asp Gly
 115 120 125
 Lys Asp Val Phe Asn Thr Lys Ser Val Gly Leu Ser Ile Lys Glu Ala
 130 135 140
 Met Thr Tyr His Pro Asn Gln Val Val Glu Gly Cys Cys Ser Asp Met
 145 150 155 160
 Ala Val Thr Phe Asn Gly Leu Thr Pro Asn Gln Met His Val Met Met
 165 170 175
 Tyr Gly Val Tyr Arg Leu Arg Ala Phe Gly His Ile Phe Asn Asp Ala
 180 185 190
 Leu Val Phe Leu Pro Pro Asn Gly Ser Asp Asn Asp
 195 200 204

<210> 1198
 <211> 238
 <212> Amino acid
 <213> Homo sapiens

<400> 1198
 His Glu Gly Lys Pro Thr Arg Gly Arg Gly Arg Gly Gly Ser Leu Ser
 1 5 10 15
 Thr Arg Gly Arg Gly Ser Glu Val Pro Asp Ser Ala His Leu Ala Pro
 20 25 30
 Thr Pro Leu Phe Ser Glu Ser Gly Cys Cys Gly Leu Arg Ser Arg Phe
 35 40 45
 Leu Thr Asp Cys Lys Met Glu Gly Gly Asn Leu Gly Gly Leu Ile
 50 55 60
 Lys Met Val His Leu Leu Val Leu Ser Gly Ala Trp Gly Met Gln Met
 65 70 75 80
 Trp Val Thr Phe Val Ser Gly Phe Leu Leu Phe Arg Ser Leu Pro Arg
 85 90 95
 His Thr Phe Gly Leu Val Gln Ser Lys Leu Phe Pro Phe Tyr Phe His
 100 105 110
 Ile Ser Met Gly Cys Ala Phe Ile Asn Leu Cys Ile Leu Ala Ser Gln
 115 120 125
 His Ala Trp Ala Gln Leu Thr Phe Trp Glu Ala Ser Gln Leu Tyr Leu
 130 135 140
 Leu Phe Leu Ser Leu Thr Leu Ala Thr Val Asn Ala Arg Trp Leu Glu
 145 150 155 160
 Pro Arg Thr Thr Ala Ala Met Trp Ala Leu Gln Thr Val Glu Lys Glu
 165 170 175
 Arg Gly Leu Gly Gly Glu Val Pro Gly Ser His Gln Gly Pro Asp Pro
 180 185 190
 Tyr Arg Gln Leu Arg Glu Lys Asp Pro Lys Tyr Ser Ala Leu Arg Gln
 195 200 205
 Asn Phe Phe Arg Tyr His Gly Leu Ser Ser Leu Cys Asn Leu Gly Cys
 210 215 220
 Val Leu Ser Asn Gly Leu Cys Leu Ala Ala Leu Pro Trp Lys
 225 230 235 238

<210> 1199
 <211> 100
 <212> Amino acid
 <213> Homo sapiens

<400> 1199
 Lys Gln Leu Asp Lys Gln Leu Arg Ala Asp Pro Ser Gly Ser Leu Pro
 1 5 10 15
 Pro Leu Pro Pro Ser Pro Pro Pro Pro Leu Glu Ala Gly Gly Arg Pro
 20 25 30
 Pro Glu Val Pro Pro Arg Gly Pro Ser Ala Val Pro Ser Phe Pro Ser
 35 40 45
 Val Ser Gly Asp Trp Gly Gly Pro Val Glu Ala Gly Glu Gly Gly Gln
 50 55 60
 Gln Gly Arg Gly Arg Ala Arg Ala Arg Pro Cys Ser Leu Pro Pro Leu
 65 70 75 80
 Leu Pro Pro Ser Pro Val Cys Arg Leu Ser Gly Ser Arg Ala Pro Leu
 85 90 95
 Gly Cys Asp Gly
 100

<210> 1200
 <211> 194
 <212>Amino acid
 <213> Homo sapiens

<400> 1200
 Arg Asn Gln Leu Ser Ser Gln Lys Ser Val Pro Trp Val Pro Ile Leu
 1 5 10 15
 Lys Ser Leu Pro Leu Trp Ala Ile Val Val Ala His Phe Ser Tyr Asn
 20 25 30
 Trp Thr Phe Tyr Thr Leu Leu Thr Leu Leu Pro Thr Tyr Met Lys Glu
 35 40 45
 Ile Leu Arg Phe Asn Val Gln Glu Asn Gly Phe Leu Ser Ser Leu Pro
 50 55 60
 Tyr Leu Gly Ser Trp Leu Cys Met Ile Leu Ser Gly Gln Ala Ala Asp
 65 70 75 80
 Asn Leu Arg Ala Lys Trp Asn Phe Ser Thr Leu Cys Val Arg Arg Ile
 85 90 95
 Phe Ser Leu Ile Gly Met Ile Gly Pro Ala Val Phe Leu Val Ala Ala
 100 105 110
 Gly Phe Ile Gly Cys Asp Tyr Ser Leu Ala Val Ala Phe Leu Thr Ile
 115 120 125
 Ser Thr Thr Leu Gly Gly Phe Cys Ser Ser Gly Phe Ser Ile Asn His
 130 135 140
 Leu Asp Ile Ala Pro Ser Tyr Ala Gly Ile Leu Leu Gly Ile Thr Asn
 145 150 155 160
 Thr Phe Ala Thr Ile Pro Gly Met Val Gly Pro Val Ile Ala Lys Ser
 165 170 175
 Leu Thr Pro Asp Met Gly Ile Ser Leu His Arg Pro Gly Trp Ser Ala
 180 185 190
 Val Ala
 194

<210> 1201
 <211> 119
 <212>Amino acid
 <213> Homo sapiens

<400> 1201
 Gly Pro Ser Gly Thr Thr His Ala Ser Ala His Ser Gly His Pro Gly
 1 5 10 15
 Ser Pro Arg Gly Ser Leu Ser Arg His Pro Ser Ser Gln Leu Ala Gly
 20 25 30
 Pro Gly Val Glu Gly Gly Glu Gly Thr Gln Lys Pro Arg Asp Tyr Ile
 35 40 45
 Ile Leu Ala Ile Leu Ser Cys Phe Cys Pro Met Trp Pro Val Asn Ile
 50 55 60
 Val Ala Phe Ala Tyr Ala Val Met Ser Arg Asn Ser Leu Gln Gln Gly
 65 70 75 80
 Asp Val Asp Gly Ala Gln Arg Leu Gly Arg Val Ala Lys Leu Leu Ser
 85 90 95
 Ile Val Ala Leu Val Gly Gly Val Leu Ile Ile Ile Ala Ser Cys Val
 100 105 110
 Ile Asn Leu Gly Val Tyr Lys
 115 119

<210> 1202
 <211> 66
 <212>Amino acid
 <213> Homo sapiens

<400> 1202
 Ser Leu Phe Leu Ser Phe Pro Pro Leu Ser Phe Lys Met Thr Leu Asn
 1 5 10 15
 Asp Ala Met Arg Asn Lys Ala Arg Leu Ser Ile Thr Gly Ser Thr Gly
 20 25 30
 Glu Asn Gly Arg Val Met Thr Pro Glu Phe Pro Lys Ala Val His Ala
 35 40 45
 Val Pro Tyr Val Ser Pro Gly Met Gly Met Asn Val Ser Val Thr Asp
 50 55 60
 Leu Ser
 65 66

<210> 1203
 <211> 509
 <212>Amino acid
 <213> Homo sapiens

<400> 1203
 Asp Asp Val Pro Pro Pro Ala Pro Asp Leu Tyr Asp Val Pro Pro Gly
 1 5 10 15
 Leu Arg Arg Pro Gly Pro Gly Thr Leu Tyr Asp Val Pro Arg Glu Arg
 20 25 30
 Val Leu Pro Pro Glu Val Ala Asp Gly Gly Val Val Asp Ser Gly Val
 35 40 45
 Tyr Ala Val Pro Pro Pro Ala Glu Arg Glu Ala Pro Ala Glu Gly Lys
 50 55 60
 Arg Leu Ser Ala Ser Ser Thr Gly Ser Thr Arg Ser Ser Gln Ser Ala
 65 70 75 80
 Ser Ser Leu Glu Val Ala Gly Pro Gly Arg Glu Pro Leu Glu Leu Glu
 85 90 95
 Val Ala Val Glu Ala Leu Ala Arg Leu Gln Gln Gly Val Ser Ala Thr
 100 105 110
 Val Ala His Leu Leu Asp Leu Ala Gly Ser Ala Gly Ala Thr Gly Ser
 115 120 125
 Trp Arg Ser Pro Ser Glu Pro Gln Glu Pro Leu Val Gln Asp Leu Gln
 130 135 140
 Ala Ala Val Ala Ala Val Gln Ser Ala Val His Glu Leu Leu Glu Phe
 145 150 155 160
 Ala Arg Ser Ala Val Gly Asn Ala Ala His Thr Ser Asp Arg Ala Leu
 165 170 175
 His Ala Lys Leu Ser Arg Gln Leu Gln Lys Met Glu Asp Val His Gln
 180 185 190
 Thr Leu Val Ala His Gly Gln Ala Leu Asp Ala Gly Arg Gly Gly Ser
 195 200 205
 Gly Ala Thr Leu Glu Asp Leu Asp Arg Leu Val Ala Cys Ser Arg Ala
 210 215 220
 Val Pro Glu Asp Ala Lys Gln Leu Ala Ser Phe Leu His Gly Asn Ala
 225 230 235 240

```

Ser Leu Leu Phe Arg Arg Thr Lys Ala Thr Ala Pro Gly Pro Glu Gly
      245      250      255
Gly Gly Thr Leu His Pro Asn Pro Thr Asp Lys Thr Ser Ser Ile Gln
      260      265      270
Ser Arg Pro Leu Pro Ser Pro Pro Lys Phe Thr Ser Gln Asp Ser Pro
      275      280      285
Asp Gly Gln Tyr Glu Asn Ser Glu Gly Gly Trp Met Glu Asp Tyr Asp
      290      295      300
Tyr Val His Leu Gln Gly Lys Glu Glu Phe Glu Lys Thr Gln Lys Glu
      305      310      315
Leu Leu Glu Lys Gly Ser Ile Thr Arg Gln Gly Lys Ser Gln Leu Glu
      325      330      335
Leu Gln Gln Leu Lys Gln Phe Glu Arg Leu Glu Gln Glu Val Ser Arg
      340      345      350
Pro Ile Asp His Asp Leu Ala Asn Trp Thr Pro Ala Gln Pro Leu Ala
      355      360      365
Pro Gly Arg Thr Gly Gly Leu Gly Pro Ser Asp Arg Gln Leu Leu Leu
      370      375      380
Phe Tyr Leu Glu Gln Cys Glu Ala Asn Leu Thr Thr Leu Thr Asn Ala
      385      390      395      400
Val Asp Ala Phe Phe Thr Ala Val Ala Thr Asn Gln Pro Pro Lys Ile
      405      410      415
Phe Val Ala His Ser Lys Phe Val Ile Leu Ser Ala His Lys Leu Val
      420      425      430
Phe Ile Gly Asp Thr Leu Ser Arg Gln Ala Lys Ala Ala Asp Val Arg
      435      440      445
Ser Gln Val Thr His Tyr Ser Asn Leu Leu Cys Asp Leu Leu Arg Gly
      450      455      460
Ile Val Ala Thr Thr Lys Ala Ala Ala Leu Gln Tyr Pro Ser Pro Ser
      465      470      475      480
Ala Ala Gln Asp Met Val Glu Arg Val Lys Glu Leu Gly His Ser Thr
      485      490      495
Gln Gln Phe Arg Arg Val Leu Gly Gln Leu Ala Ala Ala
      500      505      509

```

<210> 1204

<211> 453

<212>Amino acid

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(453)

<223> X = any amino acid or stop code

<400> 1204

```

Glu Met Glu Glu Pro Gln Lys Ser Tyr Val Asn Thr Met Asp Leu Glu
 1          5          10          15
Arg Asp Glu Pro Leu Lys Ser Thr Gly Pro Gln Ile Ser Val Ser Glu
      20      25      30
Phe Ser Cys His Cys Cys Tyr Asp Ile Leu Val Asn Pro Thr Thr Leu
      35      40      45
Asn Cys Gly His Ser Phe Cys Arg His Cys Leu Ala Leu Trp Trp Ala
      50      55      60
Ser Ser Lys Lys Thr Glu Cys Pro Glu Cys Arg Glu Lys Trp Glu Gly
      65      70      75      80
Phe Pro Lys Val Ser Ile Leu Leu Arg Asp Ala Ile Glu Lys Leu Phe
      85      90      95
Pro Asp Ala Ile Arg Leu Arg Phe Glu Asp Ile Gln Gln Asn Asn Asp

```

```
<210> 1205
<211> 80
<212> Amino acid
<213> Homo sapiens
```

719

50 55 60
 Ile Tyr Lys Ser Phe Val Glu Ser Thr Ala Gly Ser Ser Ser Glu Ser
 65 70 75 80

<210> 1206
 <211> 205
 <212> Amino acid
 <213> Homo sapiens

<400> 1206
 Leu Tyr Tyr Ser Gln Asp Glu Glu Ser Lys Ile Met Ile Ser Asp Phe
 1 5 10 15
 Gly Leu Ser Lys Met Glu Gly Lys Gly Asp Val Met Ser Thr Ala Cys
 20 25 30
 Gly Thr Pro Gly Tyr Val Ala Pro Glu Val Leu Ala Gln Lys Pro Tyr
 35 40 45
 Ser Lys Ala Val Asp Cys Trp Ser Ile Gly Val Ile Ala Tyr Ile Leu
 50 55 60
 Leu Cys Gly Tyr Pro Pro Phe Tyr Asp Glu Asn Asp Ser Lys Leu Phe
 65 70 75 80
 Glu Gln Ile Leu Lys Ala Glu Tyr Glu Phe Asp Ser Pro Tyr Trp Asp
 85 90 95
 Asp Ile Ser Asp Ser Ala Lys Asp Phe Ile Arg Asn Leu Met Glu Lys
 100 105 110
 Asp Pro Asn Lys Arg Tyr Thr Cys Glu Gln Ala Ala Arg His Pro Trp
 115 120 125
 Ile Ala Gly Asp Thr Ala Leu Asn Lys Asn Ile His Glu Ser Val Ser
 130 135 140
 Ala Gln Ile Arg Lys Asn Phe Ala Lys Ser Lys Trp Arg Gln Ala Phe
 145 150 155 160
 Asn Ala Thr Ala Val Val Arg His Met Arg Lys Leu His Leu Gly Ser
 165 170 175
 Ser Leu Asp Ser Ser Asn Ala Ser Val Ser Ser Ser Leu Ser Leu Ala
 180 185 190
 Ser Gln Lys Asp Cys Ala Ser Gly Thr Phe His Ala Leu
 195 200 205

<210> 1207
 <211> 117
 <212> Amino acid
 <213> Homo sapiens

<400> 1207
 Arg Thr Arg Gly Gly Ala Val Ser Phe Glu Asp Phe Ile Lys Gly Leu
 1 5 10 15
 Ser Ile Leu Leu Arg Gly Thr Val Gln Glu Lys Leu Asn Trp Ala Phe
 20 25 30
 Asn Leu Tyr Asp Ile Asn Lys Asp Gly Tyr Ile Thr Lys Glu Glu Met
 35 40 45
 Leu Asp Ile Met Lys Ala Ile Tyr Asp Met Met Gly Lys Cys Thr Tyr
 50 55 60
 Pro Val Leu Lys Glu Asp Ala Pro Arg Gln His Val Glu Thr Phe Phe

65		70		75		80
Gln Lys Met Asp	Lys Asn Lys Asp Gly Val Val Thr Ile Asp Glu Phe					
	85		90		95	
Ile Glu Ser Cys	Gln Lys Asp Glu Asn Ile Met Arg Ser Met Gln Leu					
	100	105		110		
Phe Glu Asn Val Ile						
	115	117				

<210> 1208
 <211> 337
 <212> Amino acid
 <213> Homo sapiens

<400> 1208

Pro Arg Ser Pro Glu His His Thr Pro Ala Trp His Glu Gly Arg Ser																			
1			5				10												15
Leu Gly Pro Ile Met Ala Ser Met Ala Asp Arg Asn Met Lys Leu Phe							25												30
		20																	
Ser Gly Arg Val Val Pro Ala Gln Gly Glu Glu Thr Phe Glu Asn Trp							40												45
		35																	
Leu Thr Gln Val Asn Gly Val Leu Pro Asp Trp Asn Met Ser Glu Glu							55												60
		50																	
Glu Lys Leu Lys Arg Leu Met Lys Thr Leu Arg Gly Pro Ala Arg Glu							70												80
		65																	
Val Met Arg Val Leu Gln Ala Thr Asn Pro Asn Leu Ser Val Ala Asp																			95
				85															
Phe Leu Arg Ala Met Lys Leu Val Phe Gly Glu Ser Glu Ser Ser Val							105												110
		100																	
Thr Ala His Gly Lys Phe Phe Asn Thr Leu Gln Ala Gln Gly Glu Lys							120												125
		115																	
Ala Ser Leu Tyr Val Ile Arg Leu Glu Val Gln Leu Gln Asn Ala Ile							135												140
		130																	
Gln Ala Gly Ile Ile Ala Glu Lys Asp Ala Asn Arg Thr Arg Leu Gln							150												160
		145																	
Gln Leu Leu Leu Gly Glu Leu Ser Arg Asp Leu Arg Leu Arg Leu							165												175
Lys Asp Phe Leu Arg Met Tyr Ala Asn Glu Gln Glu Arg Leu Pro Asn							185												190
		180																	
Phe Leu Glu Leu Ile Lys Met Val Arg Glu Glu Glu Asp Trp Asp Asp							200												205
		195																	
Ala Phe Ile Lys Arg Lys Arg Pro Lys Arg Ser Glu Ser Met Val Glu							215												220
		210																	
Arg Ala Val Ser Pro Val Ala Phe Gln Gly Ser Pro Pro Ile Val Ile							230												240
		225																	
Gly Ser Ala Asp Cys Asn Val Ile Glu Ile Asp Asp Thr Leu Asp Asp							245												255
Ser Asp Glu Asp Val Ile Leu Val Glu Ser Gln Asp Pro Pro Leu Pro							265												270
		260																	
Ser Trp Gly Ala Pro Pro Leu Arg Asp Arg Ala Arg Pro Gln Asp Glu							280												285
		275																	
Val Leu Val Ile Asp Ser Pro His Asn Ser Arg Ala Gln Phe Pro Ser							295												300
		290																	
Thr Ser Gly Gly Ser Gly Tyr Lys Asn Asn Gly Pro Gly Glu Met Arg							310												320
		305																	
Arg Ala Arg Lys Arg Lys His Thr Ile Arg Cys Ser Tyr Cys Gly Glu							325												335
Glu																			
337																			

<210> 1209
 <211> 64
 <212>Amino acid
 <213> Homo sapiens

<400> 1209
 Ser Val Ala Cys Thr Val Pro Leu Arg Ser Met Ser Asp Pro Asp Gln
 1 5 10 15
 Asp Phe Asp Lys Glu Pro Asp Ser Asp Ser Thr Lys His Ser Thr Pro
 20 25 30
 Ser Asn Ser Ser Asn Pro Ser Gly Pro Pro Ser Pro Asn Ser Pro His
 35 40 45
 Arg Ser Gln Leu Pro Leu Glu Gly Leu Glu Gln Pro Ala Cys Asp Thr
 50 55 60 64

<210> 1210
 <211> 316
 <212>Amino acid
 <213> Homo sapiens

<400> 1210
 Tyr Ser Ala Val Glu Phe Ala Glu Arg Gly Ser Gly Gly Ser Ser Gly
 1 5 10 15
 Asp Glu Leu Arg Glu Asp Asp Glu Pro Val Lys Lys Arg Gly Arg Lys
 20 25 30
 Gly Arg Gly Arg Gly Pro Pro Ser Ser Ser Asp Ser Glu Pro Glu Ala
 35 40 45
 Glu Leu Glu Arg Glu Ala Lys Lys Ser Ala Lys Lys Pro Gln Ser Ser
 50 55 60
 Ser Thr Glu Pro Ala Arg Lys Pro Gly Gln Lys Glu Lys Arg Val Arg
 65 70 75 80
 Pro Glu Glu Lys Gln Gln Ala Lys Pro Val Lys Val Glu Arg Thr Arg
 85 90 95
 Lys Arg Ser Glu Gly Phe Ser Met Asp Arg Lys Val Glu Lys Lys Lys
 100 105 110
 Glu Pro Ser Val Glu Glu Lys Leu Gln Lys Leu His Ser Glu Ile Lys
 115 120 125
 Phe Ala Leu Lys Val Asp Ser Pro Asp Val Lys Arg Cys Leu Asn Ala
 130 135 140
 Leu Glu Glu Leu Gly Thr Leu Gln Val Thr Ser Gln Ile Leu Gln Lys
 145 150 155 160
 Asn Thr Asp Val Val Ala Thr Leu Lys Lys Ile Arg Arg Tyr Lys Ala
 165 170 175
 Asn Lys Asp Val Met Glu Lys Ala Ala Glu Val Tyr Thr Arg Leu Lys
 180 185 190
 Ser Arg Val Leu Gly Pro Lys Ile Glu Ala Val Gln Lys Val Asn Lys
 195 200 205
 Ala Gly Met Glu Lys Glu Lys Ala Glu Glu Lys Leu Ala Gly Glu Glu
 210 215 220
 Leu Ala Gly Glu Glu Ala Pro Gln Glu Lys Ala Glu Asp Lys Pro Ser
 225 230 235 240
 Thr Asp Leu Ser Ala Pro Val Asn Gly Glu Ala Thr Ser Gln Lys Gly

```

      245      /      /      250      /      /      255
Glu Ser Ala Glu Asp Lys Glu His Glu Glu Gly Arg Asp Ser Glu Glu
      260      265      270
Gly Pro Arg Cys Gly Ser Ser Glu Asp Leu His Asp Ser Val Arg Glu
      275      280      285
Gly Pro Asp Leu Asp Arg Pro Gly Ser Asp Arg Gln Glu Arg Glu Arg
      290      295      300
Ala Arg Gly Asp Ser Glu Ala Leu Asp Glu Glu Ser
      305      310      315 316

```

```

<210> 1211
<211> 767
<212>Amino acid
<213> Homo sapiens

```

```

      <400> 1211
Leu Ala Glu Leu Ser Ser Leu Ser Val Leu Arg Leu Ser His Asn Ser
  1      5      10      15
Ile Ser His Ile Ala Glu Gly Ala Phe Lys Gly Leu Arg Ser Leu Arg
      20      25      30
Val Leu Asp Leu Asp His Asn Glu Ile Ser Gly Thr Ile Glu Asp Thr
      35      40      45
Ser Gly Ala Phe Ser Gly Leu Asp Ser Leu Ser Lys Leu Thr Leu Phe
      50      55      60
Gly Asn Lys Ile Lys Ser Val Ala Lys Arg Ala Phe Ser Gly Leu Glu
      65      70      75      80
Gly Leu Glu His Leu Asn Leu Gly Gly Asn Ala Ile Arg Ser Val Gln
      85      90      95
Phe Asp Ala Phe Val Lys Met Lys Asn Leu Lys Glu Leu His Ile Ser
      100      105      110
Ser Asp Ser Phe Leu Cys Asp Cys Gln Leu Lys Trp Leu Pro Pro Trp
      115      120      125
Leu Ile Gly Arg Met Leu Gln Ala Phe Val Thr Ala Thr Cys Ala His
      130      135      140
Pro Glu Ser Leu Lys Gly Gln Ser Ile Phe Ser Val Pro Pro Glu Ser
      145      150      155      160
Phe Val Cys Asp Asp Phe Leu Lys Pro Gln Ile Ile Thr Gln Pro Glu
      165      170      175
Thr Thr Met Ala Met Val Gly Lys Asp Ile Arg Phe Thr Cys Ser Ala
      180      185      190
Ala Ser Ser Ser Ser Pro Met Thr Phe Ala Trp Lys Lys Asp Asn
      195      200      205
Glu Val Leu Thr Asn Ala Asp Met Glu Asn Phe Val His Val His Ala
      210      215      220
Gln Asp Gly Glu Val Met Glu Tyr Thr Thr Ile Leu His Leu Arg Gln
      225      230      235      240
Val Thr Phe Gly His Glu Gly Arg Tyr Gln Cys Val Ile Thr Asn His
      245      250      255
Phe Gly Ser Thr Tyr Ser His Lys Ala Arg Leu Thr Val Asn Val Leu
      260      265      270
Pro Ser Phe Thr Lys Thr Pro His Asp Ile Thr Ile Arg Thr Thr Thr
      275      280      285
Met Ala Arg Leu Glu Cys Ala Ala Thr Gly His Pro Asn Pro Gln Ile
      290      295      300
Ala Trp Gln Lys Asp Gly Gly Thr Asp Phe Pro Ala Ala Arg Glu Arg
      305      310      315      320
Arg Met His Val Met Pro Asp Asp Asp Val Phe Phe Ile Thr Asp Val
      325      330      335
Lys Ile Asp Asp Ala Gly Val Tyr Ser Cys Thr Ala Gln Asn Ser Ala

```

```
<210> 1212
<211> 821
<212>Amino acid
<213> Homo sapiens
```

<400> 1212

Ala	Ala	Ala	Gly	Ala	Ala	Arg	Arg	Val	Ser	Val	Arg	Cys	Gly	Arg	Ser
1				5					10					15	
Gly	Pro	Gly	Pro	Gly	Arg	Gly	Ala	Ala	Gly	Leu	Ser	Pro	Ala	Asp	Ile
			20					25					30		
Ala	Leu	Ala	Ser	Glu	Gln	Gly	Ala	Ser	Cys	Ser	Val	Arg	Ala	Pro	Glu
		35					40					45			
Arg	Lys	Leu	Arg	Met	Lys	Leu	Leu	Trp	Gln	Ala	Lys	Met	Ser	Ser	Ile
	50					55					60				
Gln	Asp	Trp	Gly	Glu	Glu	Val	Glu	Glu	Gly	Ala	Val	Tyr	His	Val	Thr
65					70					75					80
Leu	Lys	Arg	Val	Gln	Ile	Gln	Gln	Ala	Ala	Asn	Lys	Gly	Ala	Arg	Trp
				85					90					95	
Leu	Gly	Val	Glu	Gly	Asp	Gln	Leu	Pro	Pro	Gly	His	Thr	Val	Ser	Gln
			100					105					110		
Tyr	Glu	Thr	Cys	Lys	Ile	Arg	Thr	Ile	Lys	Ala	Gly	Thr	Leu	Glu	Lys
	115						120					125			
Leu	Val	Glu	Asn	Leu	Leu	Thr	Ala	Phe	Gly	Asp	Asn	Asp	Phe	Thr	Tyr
130						135					140				
Ile	Ser	Ile	Phe	Leu	Ser	Thr	Tyr	Arg	Gly	Phe	Ala	Ser	Thr	Lys	Glu
145					150					155					160
Val	Leu	Glu	Leu	Leu	Leu	Asp	Arg	Tyr	Gly	Asn	Leu	Thr	Ser	Pro	Asn
				165					170					175	
Cys	Glu	Glu	Asp	Gly	Ser	Gln	Ser	Ser	Ser	Glu	Ser	Lys	Met	Val	Ile
			180					185					190		
Arg	Asn	Ala	Ile	Ala	Ser	Ile	Leu	Arg	Ala	Trp	Leu	Asp	Gln	Cys	Ala
		195					200					205			
Glu	Asp	Phe	Arg	Glu	Pro	Pro	His	Phe	Pro	Cys	Leu	Gln	Lys	Leu	Leu
	210					215					220				
Asp	Tyr	Leu	Thr	Arg	Met	Met	Pro	Gly	Ser	Asp	Pro	Glu	Arg	Arg	Ala
225					230					235					240
Gln	Asn	Leu	Leu	Glu	Gln	Phe	Gln	Lys	Gln	Glu	Val	Glu	Thr	Asp	Asn
				245					250					255	
Gly	Leu	Pro	Asn	Thr	Ile	Ser	Phe	Ser	Leu	Glu	Glu	Glu	Glu	Glu	Leu
			260				265						270		
Glu	Gly	Gly	Glu	Ser	Ala	Glu	Phe	Thr	Cys	Phe	Ser	Glu	Asp	Leu	Val
		275					280					285			
Ala	Glu	Gln	Leu	Thr	Tyr	Met	Asp	Ala	Gln	Leu	Phe	Lys	Lys	Val	Val
	290					295					300				
Pro	His	His	Cys	Leu	Gly	Cys	Ile	Trp	Ser	Arg	Arg	Asp	Lys	Lys	Glu
305					310					315					320
Asn	Lys	His	Leu	Ala	Pro	Thr	Ile	Arg	Ala	Thr	Ile	Ser	Gln	Phe	Asn
				325					330					335	
Thr	Leu	Thr	Lys	Cys	Val	Val	Ser	Thr	Ile	Leu	Gly	Gly	Lys	Glu	Leu
			340					345					350		
Lys	Thr	Gln	Gln	Arg	Ala	Lys	Ile	Ile	Glu	Lys	Trp	Ile	Asn	Ile	Ala
		355					360					365			
His	Glu	Cys	Arg	Leu	Leu	Lys	Asn	Phe	Ser	Ser	Leu	Arg	Ala	Ile	Val
	370					375					380				
Ser	Ala	Leu	Gln	Ser	Asn	Ser	Ile	Tyr	Arg	Leu	Lys	Lys	Thr	Trp	Ala
385					390					395					400
Ala	Val	Pro	Arg	Asp	Arg	Met	Leu	Met	Phe	Glu	Glu	Leu	Ser	Asp	Ile
				405					410					415	
Phe	Ser	Asp	His	Asn	Asn	His	Leu	Thr	Ser	Arg	Glu	Leu	Leu	Met	Lys
			420					425					430		
Glu	Gly	Thr	Ser	Lys	Phe	Ala	Asn	Leu	Asp	Ser	Ser	Val	Lys	Glu	Asn
		435					440					445			
Gln	Lys	Arg	Thr	Gln	Arg	Arg	Leu	Gln	Leu	Gln	Lys	Asp	Met	Gly	Val
	450					455					460				
Met	Gln	Gly	Thr	Val	Pro	Tyr	Leu	Gly	Thr	Phe	Leu	Thr	Asp	Leu	Thr
465					470					475					480
Met	Leu	Asp	Thr	Ala	Leu	Gln	Asp	Tyr	Ile	Glu	Gly	Gly	Leu	Ile	Asn
				485					490					495	
Phe	Glu	Lys	Arg	Arg	Arg	Glu	Phe	Glu	Val	Ile	Ala	Gln	Ile	Lys	Leu

```

      500      505      510
Leu Gln Ser Ala Cys Asn Ser Tyr Cys Met Thr Pro Asp Gln Lys Phe
      515      520      525
Ile Gln Trp Phe Gln Arg Gln Gln Leu Leu Thr Glu Glu Glu Ser Tyr
      530      535      540
Ala Leu Ser Cys Glu Ile Glu Ala Ala Ala Asp Ala Ser Thr Thr Ser
545      550      555      560
Pro Lys Pro Trp Lys Ser Met Val Lys Arg Leu Asn Leu Leu Phe Leu
      565      570      575
Gly Ala Asp Met Ile Thr Ser Pro Thr Pro Thr Lys Glu Gln Pro Lys
      580      585      590
Ser Thr Ala Ser Gly Ser Ser Gly Glu Ser Met Asp Ser Val Ser Val
      595      600      605
Ser Ser Cys Glu Ser Asn His Ser Glu Ala Glu Glu Gly Tyr Ile Thr
610      615      620
Pro Met Asp Thr Pro Asp Glu Pro Gln Lys Lys Leu Ser Glu Ser Ser
625      630      635      640
Ser Tyr Cys Ser Ser Ile His Ser Met Asp Thr Asn Phe Leu Gln Gly
      645      650      655
Met Ser Ser Leu Ile Asn Pro Leu Ser Ser Pro Pro Ser Cys Asn Asn
      660      665      670
Asn Pro Lys Ile His Lys Arg Ser Val Ser Val Thr Ser Ile Thr Ser
      675      680      685
Thr Val Leu Pro Pro Val Tyr Asn Gln Gln Asn Glu Asp Thr Cys Ile
690      695      700
Ile Arg Ile Ser Val Glu Asp Asn Asn Gly Asn Met Tyr Lys Ser Ile
705      710      715      720
Met Leu Thr Ser Gln Asp Lys Thr Pro Ala Val Ile Gln Arg Ala Met
      725      730      735
Leu Lys His Asn Leu Asp Ser Asp Pro Ala Glu Glu Tyr Glu Leu Val
      740      745      750
Gln Val Ile Ser Glu Asp Lys Glu Leu Val Ile Pro Asp Ser Ala Asn
      755      760      765
Val Phe Tyr Ala Met Asn Ser Gln Val Asn Phe Asp Phe Ile Leu Arg
770      775      780
Lys Lys Asn Ser Met Glu Glu Gln Val Lys Leu Arg Ser Arg Thr Ser
785      790      795      800
Leu Thr Leu Pro Arg Thr Ala Lys Arg Gly Cys Trp Ser Asn Arg His
      805      810      815
Ser Lys Ile Thr Leu
      820 821

```

<210> 1213

<211> 289

<212> Amino acid

<213> Homo sapiens

<400> 1213

```

Ala Arg Glu Lys Met Asp Ser Cys Ile Glu Ala Phe Gly Thr Thr Lys
1      5      10      15
Gln Lys Arg Ala Leu Asn Thr Arg Arg Met Asn Arg Val Gly Asn Glu
      20      25      30
Ser Leu Asn Arg Ala Val Ala Lys Ala Ala Glu Thr Ile Ile Asp Thr
      35      40      45
Lys Gly Val Thr Ala Leu Val Ser Asp Ala Ile His Asn Asp Leu Gln
50      55      60
Asp Asp Ser Leu Tyr Leu Pro Pro Cys Tyr Asp Asp Ala Ala Lys Pro
65      70      75      80
Glu Asp Val Tyr Lys Phe Glu Asp Leu Leu Ser Pro Ala Glu Tyr Glu

```

```
<210> 1214
<211> 873
<212> Amino acid
<213> Homo sapiens
```

727

195	200	205
Ile Glu Glu Leu Ile Ala Lys Ser Lys Gln Glu Lys Arg Glu Arg Gln		
210	215	220
Ala Gln Arg Glu Asp Ala Leu Glu Leu Thr Glu Lys Leu Asp Gln Asp		
225	230	235
Trp Lys Glu Ile Gln Thr Leu Leu Ser His Lys Thr Pro Lys Ser Glu		240
	245	250
Asn Arg Asp Lys Lys Glu Lys Pro Lys Pro Asp Ala Tyr Asp Met Met		255
	260	265
Val Arg Glu Leu Gly Phe Glu Met Lys Ala Gln Pro Ser Asn Arg Met		270
	275	280
Lys Thr Glu Ala Glu Leu Ala Lys Glu Glu Gln Glu His Leu Arg Lys		285
	290	295
Leu Glu Ala Glu Arg Leu Arg Arg Met Leu Gly Lys Asp Glu Asp Glu		300
305	310	315
Asn Val Lys Lys Pro Lys His Met Ser Ala Asp Asp Leu Asn Asp Gly		320
	325	330
Phe Val Leu Asp Lys Asp Asp Arg Arg Leu Leu Ser Tyr Lys Asp Gly		335
	340	345
Lys Met Asn Val Glu Glu Asp Val Gln Glu Glu Gln Ser Lys Glu Ala		350
	355	360
Ser Asp Pro Glu Ser Asn Glu Glu Glu Gly Asp Ser Ser Gly Gly Glu		365
370	375	380
Asp Thr Glu Glu Ser Asp Ser Pro Asp Ser His Leu Asp Leu Glu Ser		385
	390	395
Asn Val Glu Ser Glu Glu Glu Asn Glu Lys Pro Ala Lys Glu Gln Arg		400
	405	410
Gln Thr Pro Gly Lys Gly Leu Ile Ser Gly Lys Glu Arg Ala Gly Lys		415
	420	425
Ala Thr Arg Asp Glu Leu Pro Tyr Thr Phe Ala Ala Pro Glu Ser Tyr		430
	435	440
Glu Glu Leu Arg Ser Leu Leu Leu Gly Arg Ser Met Glu Glu Gln Leu		445
450	455	460
Leu Val Val Glu Arg Ile Gln Lys Cys Asn His Pro Ser Leu Ala Glu		465
	470	475
Gly Asn Lys Ala Lys Leu Glu Lys Leu Phe Gly Phe Leu Leu Glu Tyr		480
	485	490
Val Gly Asp Leu Ala Thr Asp Asp Pro Pro Asp Leu Thr Val Ile Asp		495
	500	505
Lys Leu Val Val His Leu Tyr His Leu Cys Gln Met Phe Pro Glu Ser		510
	515	520
Ala Ser Asp Ala Ile Lys Phe Val Leu Arg Asp Ala Met His Glu Met		525
	530	535
Glu Glu Met Ile Glu Thr Lys Gly Arg Ala Ala Leu Pro Gly Leu Asp		540
545	550	555
Val Leu Ile Tyr Leu Lys Ile Thr Gly Leu Leu Phe Pro Thr Ser Asp		560
	565	570
Phe Trp His Pro Val Val Thr Pro Ala Leu Val Cys Leu Ser Gln Leu		575
	580	585
Leu Thr Lys Cys Pro Ile Leu Ser Leu Gln Asp Val Val Lys Gly Leu		590
	595	600
Phe Val Cys Cys Leu Phe Leu Glu Tyr Val Ala Leu Ser Gln Arg Phe		605
	610	615
Ile Pro Glu Leu Ile Asn Phe Leu Leu Gly Ile Leu Tyr Ile Ala Thr		620
625	630	635
Pro Asn Lys Ala Ser Gln Gly Ser Thr Leu Val His Pro Phe Arg Ala		640
	645	650
Leu Gly Lys Asn Ser Glu Leu Leu Val Val Ser Ala Arg Glu Asp Val		655
	660	665
Ala Thr Trp Gln Gln Ser Ser Leu Ser Leu Arg Trp Ala Ser Arg Leu		670
	675	680
Arg Ala Pro Thr Ser Thr Glu Ala Asn His Ile Arg Leu Ser Cys Leu		685
	690	695
Ala Val Gly Leu Ala Leu Leu Lys Arg Cys Val Leu Met Tyr Gly Ser		700

```

705              710              715              720
Leu Pro Ser Phe His Ala Ile Met Gly Pro Leu Arg Ala Leu Leu Thr
              725              730              735
Asp His Leu Ala Asp Cys Ser His Pro Gln Glu Leu Gln Glu Leu Cys
              740              745              750
Gln Ser Thr Leu Thr Glu Met Glu Ser Gln Lys Gln Leu Cys Arg Pro
              755              760              765
Leu Thr Cys Glu Lys Ser Lys Pro Val Pro Leu Lys Leu Phe Thr Pro
              770              775              780
Arg Leu Val Lys Val Leu Glu Phe Gly Arg Lys Gln Gly Ser Ser Lys
785              790              795              800
Glu Glu Gln Glu Arg Lys Arg Leu Ile His Lys His Lys Arg Glu Phe
              805              810              815
Lys Gly Ala Val Arg Glu Ile Arg Lys Asp Asn Gln Phe Leu Ala Arg
              820              825              830
Met Gln Leu Ser Glu Ile Met Glu Arg Asp Ala Glu Arg Lys Arg Lys
              835              840              845
Val Lys Gln Leu Phe Asn Ser Leu Ala Thr Gln Glu Gly Glu Trp Lys
850              855              860
Ala Leu Lys Arg Lys Lys Phe Lys Lys
865              870              873

```

```

<210> 1215
<211> 319
<212> Amino acid
<213> Homo sapiens

```

```

<400> 1215
Leu Thr Lys Gln Glu Asp Cys Cys Gly Ser Ile Gly Thr Ala Trp Gly
 1              5              10              15
Gln Ser Lys Cys His Lys Cys Pro Gln Leu Gln Tyr Thr Gly Val Gln
              20              25              30
Lys Pro Gly Pro Val Arg Gly Glu Val Gly Ala Asp Cys Pro Gln Gly
              35              40              45
Tyr Lys Arg Leu Asn Ser Thr His Cys Gln Asp Ile Asn Glu Cys Ala
              50              55              60
Met Pro Gly Val Cys Arg His Gly Asp Cys Leu Asn Asn Pro Gly Ser
              65              70              75              80
Tyr Arg Cys Val Cys Pro Pro Gly His Ser Leu Gly Pro Ser Arg Thr
              85              90              95
Gln Cys Ile Ala Asp Lys Pro Glu Glu Lys Ser Leu Cys Phe Arg Leu
              100              105              110
Val Ser Pro Glu His Gln Cys Gln His Pro Leu Thr Thr Arg Leu Thr
              115              120              125
Arg Gln Leu Cys Cys Cys Ser Val Gly Lys Ala Trp Gly Ala Arg Cys
              130              135              140
Gln Arg Cys Pro Thr Asp Gly Thr Ala Ala Phe Lys Glu Ile Cys Pro
145              150              155              160
Ala Gly Lys Gly Tyr His Ile Leu Thr Ser His Gln Thr Leu Thr Ile
              165              170              175
Gln Gly Glu Ser Asp Phe Ser Leu Phe Leu His Pro Asp Gly Pro Pro
              180              185              190
Lys Pro Gln Gln Leu Pro Glu Ser Pro Ser Gln Ala Pro Pro Pro Glu
              195              200              205
Asp Thr Glu Glu Glu Arg Gly Val Thr Thr Asp Ser Pro Val Ser Glu
210              215              220
Glu Arg Ser Val Gln Gln Ser His Pro Thr Ala Thr Thr Thr Pro Ala
225              230              235              240
Arg Pro Tyr Pro Glu Leu Ile Ser Arg Pro Ser Pro Pro Thr Met Arg

```

```
<210> 1216
<211> 815
<212>Amino acid
<213> Homo sapiens
```

730

340	345	350
Asp Leu Leu Val Thr Glu Leu Tyr His Asp Pro Ser Asn Asp Ala Ile		
355	360	365
Thr Ala Leu Ser Val Tyr Leu Thr Pro Lys Thr Ser Val Ser Gly Asn		
370	375	380
Trp Ile Glu Ile Ala Tyr Gly Thr Ser Ser Gly Ala Val Arg Val Ile		
385	390	400
Val Gln His Pro Glu Thr Val Gly Ser Gly Pro Gln Leu Phe Gln Thr		
405	410	415
Phe Thr Val His Arg Ser Pro Val Thr Lys Ile Met Leu Ser Glu Lys		
420	425	430
His Leu Val Ser Val Cys Ala Asp Asn Asn His Val Arg Thr Trp Thr		
435	440	445
Val Thr Arg Phe Arg Gly Met Ile Ser Thr Gln Pro Gly Ser Thr Pro		
450	455	460
Leu Ala Ser Phe Lys Ile Leu Ser Leu Glu Glu Thr Glu Ser His Gly		
465	470	475
Ser Tyr Ser Ser Gly Asn Asp Ile Gly Pro Phe Gly Glu Arg Asp Asp		
485	490	495
Gln Gln Val Phe Ile Gln Lys Val Val Pro Ile Thr Asn Lys Leu Phe		
500	505	510
Val Arg Leu Ser Ser Thr Gly Lys Arg Ile Cys Glu Ile Gln Ala Val		
515	520	525
Asp Cys Thr Thr Ile Ser Ser Phe Thr Gly Arg Glu Cys Glu Gly Ser		
530	535	540
Ser Arg Met Gly Ser Arg Pro Arg Arg Tyr Leu Phe Thr Gly His Thr		
545	550	555
Asn Gly Ser Ile Gln Met Trp Asp Leu Thr Thr Ala Met Asp Met Val		
565	570	575
Asn Lys Ser Glu Asp Lys Asp Val Gly Gly Pro Thr Glu Glu Glu Leu		
580	585	590
Leu Lys Leu Leu Asp Gln Cys Asp Leu Ser Thr Ser Arg Cys Ala Thr		
595	600	605
Pro Asn Ile Ser Pro Ala Thr Ser Val Val Gln His Ser His Leu Arg		
610	615	620
Glu Ser Asn Ser Ser Leu Gln Leu Gln His His Asp Thr Thr His Glu		
625	630	635
Ala Ala Thr Tyr Gly Ser Met Arg Pro Tyr Arg Glu Ser Pro Leu Leu		
645	650	655
Ala Arg Ala Arg Thr Glu Ser Phe His Ser Tyr Arg Asp Phe Gln		
660	665	670
Thr Ile Asn Leu Asn Arg Asn Val Glu Arg Ala Val Pro Glu Asn Gly		
675	680	685
Asn Leu Gly Pro Ile Gln Ala Glu Val Lys Gly Ala Thr Gly Glu Cys		
690	695	700
Asn Ile Ser Glu Arg Lys Ser Pro Gly Val Glu Ile Lys Ser Leu Arg		
705	710	715
Glu Leu Asp Ser Gly Leu Glu Val His Lys Ile Ala Glu Gly Phe Ser		
725	730	735
Glu Ser Lys Lys Arg Ser Ser Glu Asp Glu Asn Glu Asn Lys Ile Glu		
740	745	750
Phe Arg Lys Lys Gly Gly Phe Glu Gly Gly Gly Phe Leu Gly Arg Lys		
755	760	765
Lys Val Pro Tyr Leu Ala Ser Ser Pro Ser Thr Ser Asp Gly Gly Thr		
770	775	780
Asp Ser Pro Gly Thr Ala Ser Pro Ser Pro Thr Lys Thr Thr Pro Ser		
785	790	795
Pro Arg His Lys Lys Ser Asp Ser Ser Gly Gln Glu Tyr Ser Leu		
805	810	815

<210> 1217

<211> 459

<212>Amino acid

<213> Homo sapiens

<400> 1217

```

Arg Arg Pro Thr Arg Pro Ile Leu Thr Asp Glu Leu Phe Lys Arg Thr
 1      5      10      15
Ile Gln Leu Pro His Leu Lys Thr Leu Ile Leu Asn Gly Asn Lys Leu
      20      25      30
Glu Thr Leu Ser Leu Val Ser Cys Phe Ala Asn Asn Thr Pro Leu Glu
      35      40      45
His Leu Asp Leu Ser Gln Asn Leu Leu Gln His Lys Asn Asp Glu Asn
      50      55      60
Cys Ser Trp Pro Glu Thr Val Val Asn Met Asn Leu Ser Tyr Asn Lys
      65      70      75      80
Leu Ser Asp Ser Val Phe Arg Cys Leu Pro Lys Ser Ile Gln Ile Leu
      85      90      95
Asp Leu Asn Asn Asn Gln Ile Gln Thr Val Pro Lys Glu Thr Ile His
      100      105      110
Leu Met Ala Leu Arg Glu Leu Asn Ile Ala Phe Asn Phe Leu Thr Asp
      115      120      125
Leu Pro Gly Cys Ser His Phe Ser Arg Leu Ser Val Leu Asn Ile Glu
      130      135      140
Met Asn Phe Ile Leu Ser Pro Ser Leu Asp Phe Val Gln Ser Cys Gln
      145      150      155      160
Glu Val Lys Thr Leu Asn Ala Gly Arg Asn Pro Phe Arg Cys Thr Cys
      165      170      175
Glu Leu Lys Asn Phe Ile Gln Leu Glu Thr Tyr Ser Glu Val Met Met
      180      185      190
Val Gly Trp Ser Asp Ser Tyr Thr Cys Glu Tyr Pro Leu Asn Leu Arg
      195      200      205
Gly Thr Arg Leu Lys Asp Val His Leu His Glu Leu Ser Cys Asn Thr
      210      215      220
Ala Leu Leu Ile Val Thr Ile Val Val Ile Met Leu Val Leu Gly Leu
      225      230      235      240
Ala Val Ala Phe Cys Cys Leu His Phe Asp Leu Pro Trp Tyr Leu Arg
      245      250      255
Met Leu Gly Gln Cys Thr Gln Thr Trp His Arg Val Arg Lys Thr Thr
      260      265      270
Gln Glu Gln Leu Lys Arg Asn Val Arg Phe His Ala Phe Ile Ser Tyr
      275      280      285
Ser Glu His Asp Ser Leu Trp Val Lys Asn Glu Leu Ile Pro Asn Leu
      290      295      300
Glu Lys Glu Asp Gly Ser Ile Leu Ile Cys Leu Tyr Glu Ser Tyr Phe
      305      310      315      320
Asp Pro Gly Lys Ser Ile Ser Glu Asn Ile Val Ser Phe Ile Glu Lys
      325      330      335
Ser Tyr Lys Ser Ile Phe Val Leu Ser Pro Asn Phe Val Gln Asn Glu
      340      345      350
Trp Cys His Tyr Glu Phe Tyr Phe Ala His His Asn Leu Phe His Glu
      355      360      365
Asn Ser Asp His Ile Ile Leu Ile Leu Leu Glu Pro Ile Pro Phe Tyr
      370      375      380
Cys Ile Pro Thr Arg Tyr His Lys Leu Lys Ala Leu Leu Glu Lys Lys
      385      390      395      400
Ala Tyr Leu Glu Trp Pro Lys Asp Arg Arg Lys Cys Gly Leu Phe Trp
      405      410      415
Ala Asn Leu Arg Ala Ala Ile Asn Val Asn Val Leu Ala Thr Arg Glu
      420      425      430
Met Tyr Glu Leu Gln Thr Phe Thr Glu Leu Asn Glu Glu Ser Arg Gly
      435      440      445
Ser Thr Ile Ser Leu Met Arg Thr Asp Cys Leu

```

450

455

459

<210> 1218
 <211> 366
 <212>Amino acid
 <213> Homo sapiens

<400> 1218
 Pro Thr Arg Pro Pro Thr Arg Pro Pro Thr Arg Pro Leu Leu Thr Pro
 1 5 10 15
 Ser Trp Thr Ser Thr Gly Arg Met Trp Ser His Leu Asn Arg Leu Leu
 20 25 30
 Phe Trp Ser Ile Phe Ser Ser Val Thr Cys Arg Lys Ala Val Leu Asp
 35 40 45
 Cys Glu Ala Met Lys Thr Asn Glu Phe Pro Ser Pro Cys Leu Asp Ser
 50 55 60
 Lys Thr Lys Val Val Met Lys Gly Gln Asn Val Ser Met Phe Cys Ser
 65 70 75 80
 His Lys Asn Lys Ser Leu Gln Ile Thr Tyr Ser Leu Phe Arg Arg Lys
 85 90 95
 Thr His Leu Gly Thr Gln Asp Gly Lys Gly Glu Pro Ala Ile Phe Asn
 100 105 110
 Leu Ser Ile Thr Glu Ala His Glu Ser Gly Pro Tyr Lys Cys Lys Ala
 115 120 125
 Gln Val Thr Ser Cys Ser Lys Tyr Ser Arg Asp Phe Ser Phe Thr Ile
 130 135 140
 Val Asp Pro Val Thr Ser Pro Val Leu Asn Ile Met Val Ile Gln Thr
 145 150 155 160
 Glu Thr Asp Arg His Ile Thr Leu His Cys Leu Ser Val Asn Gly Ser
 165 170 175
 Leu Pro Ile Asn Tyr Thr Phe Phe Glu Asn His Val Ala Ile Ser Pro
 180 185 190
 Ala Ile Ser Lys Tyr Asp Arg Glu Pro Ala Glu Phe Asn Leu Thr Lys
 195 200 205
 Lys Asn Pro Gly Glu Glu Glu Glu Tyr Arg Cys Glu Ala Lys Asn Arg
 210 215 220
 Leu Pro Asn Tyr Ala Thr Tyr Ser His Pro Val Thr Met Pro Ser Thr
 225 230 235 240
 Gly Gly Asp Ser Cys Pro Phe Cys Leu Lys Leu Leu Leu Pro Gly Leu
 245 250 255
 Leu Leu Leu Leu Val Val Ile Ile Leu Ile Leu Ala Phe Trp Val Leu
 260 265 270
 Pro Lys Tyr Lys Thr Arg Lys Ala Met Arg Asn Asn Val Pro Arg Asp
 275 280 285
 Arg Gly Asp Thr Ala Met Glu Val Gly Ile Tyr Ala Asn Ile Leu Glu
 290 295 300
 Lys Gln Ala Lys Glu Glu Ser Val Pro Glu Val Gly Ser Arg Pro Cys
 305 310 315 320
 Val Ser Thr Ala Gln Asp Glu Ala Lys His Ser Gln Glu Leu Gln Tyr
 325 330 335
 Ala Thr Pro Val Phe Gln Glu Val Ala Pro Arg Glu Gln Glu Ala Cys
 340 345 350
 Asp Ser Tyr Lys Ser Gly Tyr Val Tyr Ser Glu Leu Asn Phe
 355 360 365 366

<210> 1219
 <211> 97
 <212>Amino acid

<213> Homo sapiens

<400> 1219

```

Phe Phe Phe Phe Glu Glu Arg Arg Thr Gly Ser His Ser Val Gly His
 1           5           10           15
Pro Arg Met Glu Tyr Ser Gly Val Ser Met Ala His Cys Ser Leu Asn
          20          25          30
Leu Leu Gly Ser Ser Asn Ser Pro Ser Ser Ala Ser Gln Asp Ala Arg
      35          40          45
Thr Thr Gly Ala Cys Gln His Ala Gln Leu Ile Gly Phe Phe Phe Phe
      50          55          60
Val Glu Thr Ala Ser Pro Gln Val Thr His Ala Gly Leu Lys His Leu
      65          70          75          80
Val Ser Arg Asn Pro Ser Ala Val Thr Ser Gln Ser Ala Arg Ile Lys
          85          90          95
Thr
97

```

<210> 1220

<211> 242

<212>Amino acid

<213> Homo sapiens

<400> 1220

```

Asn Arg Glu Gly Ala Arg Lys Ile Gln Asn Lys Trp Leu Arg Pro Ser
 1           5           10           15
Pro Arg Ser His Arg Thr Pro Glu Ser Val Ser Pro Glu Arg Tyr Ser
          20          25          30
Tyr Gly Thr Ser Ser Ser Ser Lys Arg Thr Glu Gly Ser Cys Arg Arg
      35          40          45
Arg Arg Gln Ser Ser Ser Ser Ala Asn Ser Gln Gln Gly Gln Trp Glu
      50          55          60
Thr Gly Ser Pro Pro Thr Lys Arg Gln Arg Arg Ser Arg Gly Arg Pro
      65          70          75          80
Ser Gly Gly Ala Lys Arg Arg Arg Arg Gly Ala Pro Ala Ala Pro Gln
          85          90          95
Gln Gln Ser Glu Pro Ala Arg Pro Ser Ser Glu Gly Lys Val Thr Cys
          100          105          110
Asp Ile Arg Leu Arg Val Arg Ala Glu Tyr Cys Glu His Gly Pro Ala
          115          120          125
Leu Glu Gln Gly Val Ala Ser Arg Arg Pro Gln Ala Leu Ala Arg Gln
          130          135          140
Leu Asp Val Phe Gly Gln Ala Thr Ala Val Leu Arg Ser Arg Asp Leu
          145          150          155          160
Gly Ser Val Val Cys Asp Ile Lys Phe Ser Glu Leu Ser Tyr Leu Asp
          165          170          175
Ala Phe Trp Gly Asp Tyr Leu Ser Gly Ala Leu Leu Gln Ala Leu Arg
          180          185          190
Gly Val Phe Leu Thr Glu Ala Leu Arg Glu Ala Val Gly Arg Glu Ala
          195          200          205
Val Arg Leu Leu Val Ser Val Asp Glu Ala Asp Tyr Glu Ala Gly Arg
          210          215          220
Arg Arg Leu Leu Leu Met Glu Glu Glu Gly Gly Arg Arg Pro Thr Glu
          225          230          235          240
Ala Ser

```

242

<210> 1221
 <211> 440
 <212> Amino acid
 <213> Homo sapiens

<400> 1221
 Ala Pro Asn Thr Ala Glu Leu Arg Ile Cys Arg Val Asn Lys Asn Cys
 1 5 10 15
 Gly Ser Val Arg Gly Gly Asp Glu Ile Phe Leu Leu Cys Asp Lys Val
 20 25 30
 Gln Lys Asp Asp Ile Glu Val Arg Phe Val Leu Asn Asp Trp Glu Ala
 35 40 45
 Lys Gly Ile Phe Ser Gln Ala Asp Val His Arg Gln Val Ala Ile Val
 50 55 60
 Phe Lys Thr Pro Pro Tyr Cys Lys Ala Ile Thr Glu Pro Val Thr Val
 65 70 75 80
 Lys Met Gln Leu Arg Arg Pro Ser Asp Gln Glu Val Ser Glu Ser Met
 85 90 95
 Asp Phe Arg Tyr Leu Pro Asp Glu Lys Asp Thr Tyr Gly Asn Lys Ala
 100 105 110
 Lys Lys Gln Lys Thr Thr Leu Leu Phe Gln Lys Leu Cys Gln Asp His
 115 120 125
 Val Glu Thr Gly Phe Arg His Val Asp Gln Asp Gly Leu Glu Leu Leu
 130 135 140
 Thr Ser Gly Asp Pro Pro Thr Leu Ala Ser Gln Ser Ala Gly Ile Thr
 145 150 155 160
 Val Asn Phe Pro Glu Arg Pro Arg Pro Gly Leu Leu Gly Ser Ile Gly
 165 170 175
 Glu Gly Arg Tyr Phe Lys Lys Glu Pro Asn Leu Phe Ser His Asp Ala
 180 185 190
 Val Val Arg Glu Met Pro Thr Gly Val Ser Ser Gln Ala Glu Ser Tyr
 195 200 205
 Tyr Pro Ser Pro Gly Pro Ile Ser Ser Gly Leu Ser His His Ala Ser
 210 215 220
 Met Ala Pro Leu Pro Ser Ser Trp Ser Ser Val Ala His Pro Thr
 225 230 235 240
 Pro Arg Ser Gly Asn Thr Asn Pro Leu Ser Ser Phe Ser Thr Arg Thr
 245 250 255
 Leu Pro Ser Asn Ser Gln Gly Ile Pro Pro Phe Leu Arg Ile Pro Val
 260 265 270
 Gly Asn Asp Leu Asn Ala Ser Asn Ala Cys Ile Tyr Asn Asn Ala Asp
 275 280 285
 Asp Ile Val Gly Met Glu Ala Ser Ser Met Pro Ser Ala Asp Leu Tyr
 290 295 300
 Gly Ile Ser Asp Pro Asn Met Leu Ser Asn Cys Ser Val Asn Met Met
 305 310 315 320
 Thr Thr Ser Ser Asp Ser Met Gly Glu Thr Asp Asn Pro Arg Leu Leu
 325 330 335
 Ser Met Asn Leu Glu Asn Pro Ser Cys Asn Ser Val Leu Asp Pro Arg
 340 345 350
 Asp Leu Arg Gln Leu His Gln Met Ser Ser Ser Ser Met Ser Ala Gly
 355 360 365
 Ala Asn Ser Asn Thr Thr Val Phe Val Ser Gln Ser Asp Ala Phe Glu
 370 375 380
 Gly Ser Asp Phe Ser Cys Ala Asp Asn Ser Met Ile Asn Glu Ser Gly
 385 390 395 400
 Pro Ser Asn Ser Thr Asn Pro Asn Ser His Gly Phe Val Gln Asp Ser

				405						410				415			
Gln	Tyr	Ser	Gly	Ile	Gly	Ser	Met	Gln	Asn	Glu	Gln	Leu	Ser	Asp	Ser		
			420					425						430			
Phe	Pro	Tyr	Glu	Phe	Phe	Gln	Val										
			435				440										

<210> 1222
 <211> 437
 <212> Amino acid
 <213> Homo sapiens

<400> 1222

Arg	Arg	Leu	Ser	Leu	Leu	Asp	Leu	Gln	Leu	Gly	Pro	Leu	Gly	Arg	Asp		
1				5					10					15			
Pro	Pro	Gln	Glu	Cys	Ser	Thr	Phe	Ser	Pro	Thr	Asp	Ser	Gly	Glu	Glu		
		20						25					30				
Pro	Gly	Gln	Leu	Ser	Pro	Gly	Val	Gln	Phe	Gln	Arg	Arg	Gln	Asn	Gln		
		35					40					45					
Arg	Arg	Phe	Ser	Met	Glu	Asp	Val	Ser	Lys	Arg	Leu	Ser	Leu	Pro	Met		
	50					55					60						
Asp	Ile	Arg	Leu	Pro	Gln	Glu	Phe	Leu	Gln	Lys	Leu	Gln	Met	Glu	Ser		
65					70				75					80			
Pro	Asp	Leu	Pro	Lys	Pro	Leu	Ser	Arg	Met	Ser	Arg	Arg	Ala	Ser	Leu		
				85				90						95			
Ser	Asp	Ile	Gly	Phe	Gly	Lys	Leu	Glu	Thr	Tyr	Val	Lys	Leu	Asp	Lys		
			100					105					110				
Leu	Gly	Glu	Gly	Thr	Tyr	Ala	Thr	Val	Phe	Lys	Gly	Arg	Ser	Lys	Leu		
		115					120					125					
Thr	Glu	Asn	Leu	Val	Ala	Leu	Lys	Glu	Ile	Arg	Leu	Glu	His	Glu	Glu		
		130				135						140					
Gly	Ala	Pro	Cys	Thr	Ala	Ile	Arg	Glu	Val	Ser	Leu	Leu	Lys	Asn	Leu		
145					150					155					160		
Lys	His	Ala	Asn	Ile	Val	Thr	Leu	His	Asp	Leu	Ile	His	Thr	Asp	Arg		
			165					170						175			
Ser	Leu	Thr	Leu	Val	Phe	Glu	Tyr	Leu	Asp	Ser	Asp	Leu	Lys	Gln	Tyr		
			180					185					190				
Leu	Asp	His	Cys	Gly	Asn	Leu	Met	Ser	Met	His	Asn	Val	Lys	Ile	Phe		
	195						200					205					
Met	Phe	Gln	Leu	Leu	Arg	Gly	Leu	Ala	Tyr	Cys	His	His	Arg	Lys	Ile		
	210					215					220						
Leu	His	Arg	Asp	Leu	Lys	Pro	Gln	Asn	Leu	Leu	Ile	Asn	Glu	Arg	Gly		
225					230						235				240		
Glu	Leu	Lys	Leu	Ala	Asp	Phe	Gly	Leu	Ala	Arg	Ala	Lys	Ser	Val	Pro		
			245					250						255			
Thr	Lys	Thr	Tyr	Ser	Asn	Glu	Val	Val	Thr	Leu	Trp	Tyr	Arg	Pro	Pro		
			260					265						270			
Asp	Val	Leu	Leu	Gly	Ser	Thr	Glu	Tyr	Ser	Thr	Pro	Ile	Asp	Met	Trp		
	275						280					285					
Gly	Val	Gly	Cys	Ile	His	Tyr	Glu	Met	Ala	Thr	Gly	Arg	Pro	Leu	Phe		
	290					295					300						
Pro	Gly	Ser	Thr	Val	Lys	Glu	Glu	Leu	His	Lys	Ile	Asn	Arg	Leu	Leu		
305					310					315					320		
Gly	Thr	Pro	Thr	Glu	Glu	Thr	Trp	Pro	Gly	Val	Thr	Ala	Phe	Ser	Glu		
			325					330						335			
Phe	Arg	Thr	Tyr	Ser	Phe	Pro	Cys	Tyr	Leu	Pro	Gln	Pro	Leu	Ile	Asn		
			340					345						350			
His	Ala	Pro	Arg	Leu	Asp	Thr	Asp	Gly	Ile	His	Leu	Leu	Ser	Ser	Leu		
		355					360					365					
Leu	Leu	Tyr	Glu	Ser	Lys	Ser	Arg	Met	Ser	Ala	Glu	Ala	Ala	Leu	Ser		

```

      370              375              380
His Ser Tyr Phe Arg Ser Leu Gly Glu Arg Val His Gln Leu Glu Asp
385              390              395              400
Thr Ala Ser Ile Phe Ser Leu Lys Glu Ile Gln Leu Gln Lys Asp Pro
      405              410              415
Gly Tyr Arg Gly Leu Ala Phe Gln Gln Pro Gly Arg Gly Lys Asn Arg
      420              425              430
Arg Gln Ser Ile Phe
      435              437

```

```

<210> 1223
<211> 150
<212>Amino acid
<213> Homo sapiens

```

```

<400> 1223
Cys Thr Pro His Gly Ser Ser Ser Ser Trp Lys Ile Pro Leu Trp Pro
  1              5              10              15
Arg His Met Ser Pro Leu His Ser Cys Leu Pro Val Gly Thr Ser Thr
      20              25              30
Ser Ser Gly Pro Leu Ala Val Pro Arg Asp Cys Phe His Leu Cys Cys
      35              40              45
Leu Trp Gly Gln Leu Leu Leu Ile Ser Cys Pro Leu Ala Cys Gly Gln
      50              55              60
Gly Cys Arg Val Ala Gly Gly Gln Gln His Val Pro Gly Gln Ala Leu
      65              70              75              80
Gly Thr Leu Ser Pro Leu Val Ser Leu Leu Thr Trp Ala Gly Pro Ser
      85              90              95
Leu Asp Trp Pro His Pro Gly Ser Leu Val Thr Pro Arg Cys Pro Ile
      100              105              110
Leu Pro Ala Val Pro Val Leu Val Lys Gly Leu Gly Gly Trp Pro Pro
      115              120              125
Thr Arg Pro Ser Arg Ala Ala Pro Val Ser Gly Pro Trp Asp Gln Leu
      130              135              140
Pro Tyr Phe Pro Gly Leu
      145              150

```

```

<210> 1224
<211> 276
<212>Amino acid
<213> Homo sapiens

```

```

<400> 1224
Leu Ile Ser Pro Val Trp Gly Asn Ile Gln Arg Ser Arg Ser Val Pro
  1              5              10              15
Leu Phe Pro Ser Gly Leu Val Leu Gly Ile Trp Ala Arg Gly Pro
      20              25              30
Leu Leu Ala Leu Leu Ala Ser Phe Asn Ile Ile Ser Val Leu Asn Ala
      35              40              45
Glu Cys Tyr Leu Lys Gln Ile Leu His Pro Thr Ser His Phe Thr Val
      50              55              60
Ser Glu Thr Pro Pro Leu Ser Gly Asn Asp Thr Asp Ser Leu Ser Cys
      65              70              75              80
Asp Ser Gly Ser Ser Ala Thr Ser Thr Pro Cys Val Ser Arg Leu Val

```

```
<210> 1225
<211> 270
<212> Amino acid
<213> Homo sapiens
```

738

210		215		220
Gly Thr Lys Gly Leu Lys Lys Val Val His Glu Thr Pro Ala Ala Ser				
225		230		235
Lys Thr Val Phe Phe Phe Ser Ser Pro Gly Asn Asn Asn Gly Thr				240
	245		250	255
Ser Ile Glu Asp Gly Gln Ile Pro Glu Ile Ile Phe Tyr Thr				
	260		265	270

<210> 1226
 <211> 273
 <212>Amino acid
 <213> Homo sapiens

<400> 1226

Ser Val Trp Trp Asn Ser Glu Val Lys Asp Trp Met Gln Lys Lys Arg				
1	5		10	15
Arg Gly Leu Arg Asn Ser Arg Ala Thr Ala Gly Asp Ile Ala His Tyr				
	20		25	30
Tyr Arg Asp Tyr Val Val Lys Lys Gly Leu Gly His Asn Phe Val Ser				
	35		40	45
Gly Ala Val Val Thr Ala Val Glu Trp Gly Thr Pro Asp Pro Ser Ser				
	50		55	60
Cys Gly Ala Gln Asp Ser Ser Pro Leu Phe Gln Val Ser Gly Phe Leu				
	65		70	75
Thr Arg Asn Gln Ala Gln Gln Pro Phe Ser Leu Trp Ala Arg Asn Val				
		85	90	95
Val Leu Ala Thr Gly Thr Phe Asp Ser Pro Ala Arg Leu Gly Ile Pro				
	100		105	110
Gly Glu Ala Leu Pro Phe Ile His His Glu Leu Ser Ala Leu Glu Ala				
	115		120	125
Ala Thr Arg Val Gly Ala Val Thr Pro Ala Ser Asp Pro Val Leu Ile				
	130		135	140
Ile Gly Ala Gly Leu Ser Ala Ala Asp Ala Val Leu Tyr Ala Arg His				
	145		150	155
Tyr Asn Ile Pro Val Ile His Ala Phe Arg Arg Ala Val Asp Asp Pro				
		165	170	175
Gly Leu Val Phe Asn Gln Leu Pro Lys Met Leu Tyr Pro Glu Tyr His				
	180		185	190
Lys Val His Gln Met Met Arg Glu Gln Ser Ile Leu Ser Pro Ser Pro				
	195		200	205
Tyr Glu Gly Tyr Arg Ser Leu Pro Arg His Gln Leu Leu Cys Phe Lys				
	210		215	220
Glu Asp Cys Gln Ala Val Phe Gln Asp Leu Glu Gly Val Glu Lys Val				
	225		230	235
Phe Gly Val Ser Leu Val Leu Val Leu Ile Gly Ser His Pro Asp Leu				
		245	250	255
Ser Phe Leu Pro Gly Ala Gly Leu Thr Leu Gln Trp Ile Leu Thr Ser				
	260		265	270

Arg
273

<210> 1227
 <211> 86
 <212>Amino acid
 <213> Homo sapiens

<400> 1227

```

Lys Leu Arg Pro Phe Ile Phe Ser Asn Gln Ser Leu Trp Leu His Ser
 1           5           10           15
Tyr Glu Gly Ala Glu Leu Glu Lys Thr Phe Ile Lys Gly Ser Trp Ala
          20           25           30
Thr Phe Trp Val Lys Val Ala Ser Cys Trp Ala Cys Val Leu Leu Tyr
          35           40           45
Leu Gly Leu Leu Leu Ala Pro Leu Cys Trp Pro Pro Thr Gln Lys Pro
 50           55           60
Gln Pro Leu Ile Leu Arg Arg Arg Arg His Arg Ile Ile Ser Pro Asp
 65           70           75           80
Asn Lys Tyr Pro Pro Val
          85 86

```

<210> 1228

<211> 249

<212>Amino acid

<213> Homo sapiens

<400> 1228

```

Gln Leu Ile His Leu Ser His Gly Tyr Gln Ile His Trp Thr Asp Tyr
 1           5           10           15
Tyr Asn Val Gly Thr Gly Arg Pro Glu Phe Gly Thr Arg Ala Ala His
          20           25           30
Lys Ser Leu Ala Gly Ala Glu Leu Lys Thr Leu Lys Asp Phe Val Thr
          35           40           45
Val Leu Ala Lys Leu Phe Pro Gly Arg Pro Pro Val Lys Lys Leu Leu
 50           55           60
Glu Met Leu Gln Glu Trp Leu Ala Ser Leu Pro Leu Asp Arg Ile Pro
 65           70           75           80
Tyr Asn Ala Val Leu Asp Leu Val Asn Asn Lys Met Arg Ile Ser Gly
          85           90           95
Ile Phe Leu Thr Asn His Ile Lys Trp Val Gly Cys Gln Gly Ser Arg
          100          105          110
Ser Glu Leu Arg Gly Tyr Pro Cys Ser Leu Trp Lys Leu Phe His Thr
          115          120          125
Leu Thr Val Glu Ala Ser Thr His Pro Asp Ala Leu Val Gly Thr Gly
          130          135          140
Phe Glu Asp Asp Pro Gln Ala Val Leu Gln Thr Met Arg Arg Tyr Val
          145          150          155          160
His Thr Phe Phe Gly Cys Lys Glu Cys Gly Glu His Phe Glu Glu Met
          165          170          175
Ala Lys Glu Ser Met Asp Ser Val Lys Thr Pro Asp Gln Ala Ile Leu
          180          185          190
Trp Leu Trp Lys Lys His Asn Met Val Asn Gly Arg Leu Ala Gly Glu
          195          200          205
Lys Pro Leu Gly Met Gly Gly Ser Ala Arg Ala Glu Gly Gly Pro Gly
          210          215          220
Pro Gly Thr Ala Arg Thr Ala Arg Leu Pro Trp Gly Leu Ser Leu Ser
          225          230          235          240
Phe Ala Ala Ser Cys His Pro Leu Cys
          245          249

```

<210> 1229

<211> 800

<212>Amino acid

<213> Homo sapiens

<400> 1229

```

His Gly Gly Ala Thr Phe Ile Asn Ala Phe Val Thr Thr Pro Met Cys
 1          5          10          15
Cys Pro Ser Arg Ser Ser Met Leu Thr Gly Lys Tyr Val His Asn His
          20          25          30
Asn Val Tyr Thr Asn Asn Glu Asn Cys Ser Ser Pro Ser Trp Gln Ala
          35          40          45
Met His Glu Pro Arg Thr Phe Ala Val Tyr Leu Asn Asn Thr Gly Tyr
          50          55          60
Arg Thr Ala Phe Phe Gly Lys Tyr Leu Asn Glu Tyr Asn Gly Ser Tyr
          65          70          75          80
Ile Pro Pro Gly Trp Arg Glu Trp Leu Gly Leu Ile Lys Asn Ser Arg
          85          90          95
Phe Tyr Asn Tyr Thr Val Cys Arg Asn Gly Ile Lys Glu Lys His Gly
          100          105          110
Phe Asp Tyr Ala Lys Asp Tyr Phe Thr Asp Leu Ile Thr Asn Glu Ser
          115          120          125
Ile Asn Tyr Phe Lys Met Ser Lys Arg Met Tyr Pro His Arg Pro Val
          130          135          140
Met Met Val Ile Ser His Ala Glu Pro His Gly Pro Glu Asp Ser Ala
          145          150          155          160
Pro Gln Phe Ser Lys Leu Tyr Pro Asn Ala Ser Gln His Ile Thr Pro
          165          170          175
Ser Tyr Asn Tyr Ala Pro Asn Met Asp Lys His Trp Ile Met Gln Tyr
          180          185          190
Thr Gly Pro Met Leu Pro Ile His Met Glu Phe Thr Asn Ile Leu Gln
          195          200          205
Arg Lys Arg Leu Gln Thr Leu Met Ser Val Asp Asp Ser Val Glu Arg
          210          215          220
Leu Tyr Asn Met Leu Val Glu Thr Gly Glu Leu Glu Asn Thr Tyr Ile
          225          230          235          240
Ile Tyr Thr Ala Asp His Gly Tyr His Ile Gly Gln Phe Gly Leu Val
          245          250          255
Lys Gly Lys Ser Met Pro Tyr Asp Phe Asp Ile Arg Val Pro Phe Phe
          260          265          270
Ile Arg Gly Pro Ser Val Glu Pro Gly Ser Ile Val Pro Gln Ile Val
          275          280          285
Leu Asn Ile Asp Leu Ala Pro Thr Ile Leu Asp Ile Ala Gly Leu Asp
          290          295          300
Thr Pro Pro Asp Val Asp Gly Lys Ser Val Leu Lys Leu Leu Asp Pro
          305          310          315          320
Glu Lys Pro Gly Asn Arg Phe Arg Thr Asn Lys Lys Ala Lys Ile Trp
          325          330          335
Arg Asp Thr Phe Leu Val Glu Arg Gly Lys Phe Leu Arg Lys Lys Glu
          340          345          350
Glu Ser Ser Lys Asn Ile Gln Gln Ser Asn His Leu Pro Lys Tyr Glu
          355          360          365
Arg Val Lys Glu Leu Cys Gln Gln Ala Arg Tyr Gln Thr Ala Cys Glu
          370          375          380
Gln Pro Gly Gln Lys Trp Gln Cys Ile Glu Asp Thr Ser Gly Lys Leu
          385          390          395          400
Arg Ile His Lys Cys Lys Gly Pro Ser Asp Leu Leu Thr Val Arg Gln
          405          410          415
Ser Thr Arg Asn Leu Tyr Ala Arg Gly Phe His Asp Lys Asp Lys Glu
          420          425          430
Cys Ser Cys Arg Glu Ser Gly Tyr Arg Ala Ser Arg Ser Gln Arg Lys
          435          440          445
Ser Gln Arg Gln Phe Leu Arg Asn Gln Gly Thr Pro Lys Tyr Lys Pro

```

```

      450              455              460
Arg Phe Val His Thr Arg Gln Thr Arg Ser Leu Ser Val Glu Phe Glu
465              470              475              480
Gly Glu Ile Tyr Asp Ile Asn Leu Glu Glu Glu Glu Leu Gln Val
      485              490              495
Leu Gln Pro Arg Asn Ile Ala Lys Arg His Asp Glu Gly His Lys Gly
      500              505              510
Pro Arg Asp Leu Gln Ala Ser Ser Gly Gly Asn Arg Gly Arg Met Leu
      515              520              525
Ala Asp Ser Ser Asn Ala Val Gly Pro Pro Thr Thr Val Arg Val Thr
      530              535              540
His Lys Cys Phe Ile Leu Pro Asn Asp Ser Ile His Cys Glu Arg Glu
545              550              555              560
Leu Tyr Gln Ser Ala Arg Ala Trp Lys Asp His Lys Ala Tyr Ile Asp
      565              570              575
Glu Glu Ile Glu Ala Leu Gln Asp Lys Ile Lys Asn Leu Arg Glu Val
      580              585              590
Arg Gly His Leu Lys Arg Arg Lys Pro Glu Glu Cys Ser Cys Ser Lys
      595              600              605
Gln Ser Tyr Tyr Asn Lys Glu Lys Gly Val Lys Lys Gln Glu Lys Leu
      610              615              620
Lys Ser His Leu His Pro Phe Lys Glu Ala Ala Gln Glu Val Asp Ser
625              630              635              640
Lys Leu Gln Leu Phe Lys Glu Asn Asn Arg Arg Arg Lys Lys Glu Arg
      645              650              655
Lys Glu Lys Arg Arg Gln Arg Lys Gly Glu Glu Cys Ser Leu Pro Gly
      660              665              670
Leu Thr Cys Phe Thr His Asp Asn Asn His Trp Gln Thr Ala Pro Phe
      675              680              685
Trp Asn Leu Gly Ser Phe Cys Ala Cys Thr Ser Ser Asn Asn Asn Thr
      690              695              700
Tyr Trp Cys Leu Arg Thr Val Asn Glu Thr His Asn Phe Leu Phe Cys
705              710              715              720
Glu Phe Ala Thr Gly Phe Leu Glu Tyr Phe Asp Met Asn Thr Asp Pro
      725              730              735
Tyr Gln Leu Thr Asn Thr Val His Thr Val Glu Arg Gly Ile Leu Asn
      740              745              750
Gln Leu His Val Gln Leu Met Glu Leu Arg Ser Cys Gln Gly Tyr Lys
      755              760              765
Gln Cys Asn Pro Arg Pro Lys Asn Leu Asp Val Gly Asn Lys Asp Gly
      770              775              780
Gly Ser Tyr Asp Leu His Arg Gly Gln Leu Trp Asp Gly Trp Glu Gly
785              790              795              800

```

<210> 1230

<211> 698

<212>Amino acid

<213> Homo sapiens

<400> 1230

```

His Leu Leu Ile Ala Gln Glu Leu Ala Asp Arg Val Gly Glu Gly Arg
1              5              10              15
Ala Cys Trp Ser Leu Gly Asn Ala Tyr Val Ser Met Gly Arg Pro Ala
      20              25              30
Gln Ala Leu Thr Phe Ala Lys Lys His Leu Gln Ile Ser Gln Glu Ile
      35              40              45
Gly Asp Arg His Gly Glu Leu Thr Ala Arg Met Asn Val Ala Gln Leu

```

50	55	60
Gln Leu Val Leu Gly	Arg Leu Thr Ser Pro Ala	Ala Ser Glu Lys Pro
65	70	75
Asp Leu Ala Gly Tyr	Glu Ala Gln Gly Ala Arg	Pro Lys Arg Thr Gln
85	90	95
Arg Leu Ser Ala Glu	Thr Trp Asp Leu Leu Arg	Leu Pro Leu Glu Arg
100	105	110
Glu Gln Asn Gly Asp	Ser His His Ser Gly Asp	Trp Arg Gly Pro Ser
115	120	125
Arg Asp Ser Leu Pro	Leu Pro Val Arg Ser Arg	Lys Tyr Gln Glu Gly
130	135	140
Pro Asp Ala Glu Arg	Arg Pro Arg Glu Gly Ser	His Ser Pro Leu Asp
145	150	155
Ser Ala Asp Val Arg	Val His Val Pro Arg Thr	Ser Ile Pro Arg Ala
165	170	175
Pro Ser Ser Asp Glu	Glu Cys Phe Phe Asp Leu	Leu Thr Lys Phe Gln
180	185	190
Ser Ser Arg Met Asp	Asp Gln Arg Cys Pro Leu	Asp Asp Gly Gln Ala
195	200	205
Gly Ala Ala Glu Ala	Thr Ala Ala Pro Thr Leu	Glu Asp Arg Ile Ala
210	215	220
Gln Pro Ser Met Thr	Ala Ser Pro Gln Thr Glu	Glu Phe Phe Asp Leu
225	230	235
Ile Ala Ser Ser Gln	Ser Arg Arg Leu Asp Asp	Gln Arg Ala Ser Val
245	250	255
Gly Ser Leu Pro Gly	Leu Arg Ile Thr His Ser	Asn Ala Gly His Leu
260	265	270
Arg Gly His Gly Glu	Pro Gln Glu Pro Gly Asp	Asp Phe Phe Asn Met
275	280	285
Leu Ile Lys Tyr Gln	Ser Ser Arg Ile Asp Asp	Gln Arg Cys Pro Pro
290	295	300
Pro Asp Val Leu Pro	Arg Gly Pro Thr Met Pro	Asp Glu Asp Phe Phe
305	310	315
Ser Leu Ile Gln Arg	Val Gln Ala Lys Arg Met	Asp Glu Gln Arg Val
325	330	335
Asp Leu Ala Gly Gly	Pro Gly Ala Gly Gly Arg	Arg Pro Ala Arg Ala
340	345	350
Pro Ala Ala Val Pro	Ala Trp Cys Glu Leu Arg	Pro Cys Ala His Arg
355	360	365
Gln Ala His Pro Ala	Pro Thr Pro Gly Arg Arg	Ser His Ser His Ser
370	375	380
His Val Leu Pro Arg	Pro Leu Pro Arg Thr Gly	Thr Gly His Ala Ala
385	390	395
Pro Arg Pro Pro Arg	Pro Arg Ala Thr Gly Ser	Gly Gln Ala Ala Arg
405	410	415
Gly Gly Arg Ala Cys	Phe His Pro Gly Leu Ala	Pro Met Ala Leu Ser
420	425	430
Phe Leu Pro Ser Ala	Pro Ala Ala Gly Arg Thr	Gly Pro Ser Ala Cys
435	440	445
Arg Pro Arg Pro Gly	Ala Val Arg Leu Pro His	Pro Leu Pro Gln Ala
450	455	460
Leu Pro Val Leu Pro	Cys Pro Ala Lys Cys Glu	Thr Leu Leu Ser Pro
465	470	475
Ser Pro Ser Pro Lys	Val Ser Leu Ser Arg Leu	Leu Gly Pro Pro Arg
485	490	495
Thr Gly Pro Cys Ser	Val Pro Pro Glu Leu Val	Leu Gly Trp Pro Cys
500	505	510
Asp Arg His Ala Pro	Pro Leu Gln Leu Arg Pro	Gly Ala Gly Leu Pro
515	520	525
Pro Ser Leu Ser Pro	His Ser Pro Ala Arg Gly	Gln Gln Pro Gln Lys
530	535	540
Ala Pro Gln Thr Thr	His Gly Arg Pro Gly Cys	Ser Gly Ser Pro Glu
545	550	555
Val Pro Pro Ala Glu	Ser Gln Gly Pro Ala Gly	Ala Ser Thr Gly Ala

```

          565          570          575
Gly Pro Ile Ser Lys Ala Glu Gly Met Ala Gly His Glu Leu Arg His
          580          585          590
Ser Lys Thr Pro Ser Gln Glu Lys Gly Gln Gly Leu Val Leu Gly Met
          595          600          605
Leu Thr Gly Ser Lys Ser Ser Ala Gln Ser Gly Trp Glu Val Ala Pro
          610          615          620
Gly Ser Val Thr Leu Thr Gln Val Gly Gly Trp Ser Val Glu Ala Gly
          625          630          635          640
Glu Ala Ser Leu Ser Ser Thr Leu Gln Thr Pro His Met Arg Thr Pro
          645          650          655
Leu Leu Pro Pro Ala Gly Gly Asp Asp Ile Thr Ala Leu Ser Met Gly
          660          665          670
Arg Gly Leu Thr Gly His Gln Val Arg Asp Pro Arg Thr Gly Arg Thr
          675          680          685
Cys Trp Ser Leu Arg Trp Ala Pro Gly Ala
          690          695          698

```

<210> 1231
 <211> 131
 <212>Amino acid
 <213> Homo sapiens

```

    <400> 1231
Asn Ser Ala Ala Asp Leu Ala Ile Phe Ala Leu Trp Gly Leu Lys Pro
 1          5          10          15
Val Val Tyr Leu Leu Ala Ser Ser Phe Leu Gly Leu Gly Leu His Pro
          20          25          30
Ile Ser Gly His Phe Val Ala Glu His Tyr Met Phe Leu Lys Gly His
          35          40          45
Glu Thr Tyr Ser Tyr Tyr Gly Pro Leu Asn Trp Ile Thr Phe Asn Val
          50          55          60
Gly Tyr His Val Glu His His Asp Phe Pro Ser Ile Pro Gly Tyr Asn
          65          70          75          80
Leu Pro Leu Val Arg Lys Ile Ala Pro Glu Tyr Tyr Asp His Leu Pro
          85          90          95
Gln His His Ser Trp Val Lys Val Leu Trp Asp Phe Val Phe Glu Asp
          100          105          110
Ser Leu Gly Pro Tyr Ala Arg Val Lys Arg Val Tyr Arg Leu Ala Lys
          115          120          125
Asp Gly Leu
          130 131

```

<210> 1232
 <211> 71
 <212>Amino acid
 <213> Homo sapiens

```

    <400> 1232
Gln Glu Ser Gly Phe Ser Cys Lys Gly Pro Gly Gln Asn Val Ala Val
 1          5          10          15
Thr Arg Ala His Pro Asp Ser Gln Gly Arg Arg Arg Pro Glu Arg
          20          25          30
Gly Ala Arg Gly Gly Gln Val Phe Tyr Asn Ser Glu Tyr Gly Glu Leu

```

```

      35      40      45
Ser Glu Pro Ser Glu Glu Asp His Cys Ser Pro Ser Ala Arg Val Thr
      50      55      60
Phe Phe Thr Asp Asn Ser Tyr
      65      70  71

```

<210> 1233
 <211> 146
 <212>Amino acid
 <213> Homo sapiens

```

      <400> 1233
Val Ile Val His Ala Arg Pro Ile Arg Thr Arg Ala Ser Lys Tyr Tyr
  1      5      10      15
Ile Pro Glu Ala Val Tyr Gly Leu Pro Ala Tyr Pro Ala Tyr Ala Gly
      20      25      30
Gly Gly Gly Phe Val Leu Ser Gly Ala Thr Leu His Arg Leu Ala Gly
      35      40      45
Ala Cys Ala Gln Val Glu Leu Phe Pro Ile Asp Asp Val Phe Leu Gly
      50      55      60
Met Cys Leu Gln Arg Leu Arg Leu Thr Pro Glu Pro His Pro Ala Phe
      65      70      75      80
Arg Thr Phe Gly Ile Pro Gln Pro Ser Ala Ala Pro His Leu Ser Thr
      85      90      95
Phe Asp Pro Cys Phe Tyr Arg Glu Leu Val Val Val His Gly Leu Ser
      100      105      110
Ala Ala Asp Ile Trp Leu Met Trp Arg Leu Leu His Gly Pro His Gly
      115      120      125
Pro Ala Cys Ala His Pro Gln Pro Val Ala Ala Gly Pro Phe Gln Trp
      130      135      140
Asp Ser
145 146

```

<210> 1234
 <211> 299
 <212>Amino acid
 <213> Homo sapiens

```

      <400> 1234
Met Ala Ser Ala Ala Cys Ser Met Asp Pro Ile Asp Ser Phe Glu Leu
  1      5      10      15
Leu Asp Leu Leu Phe Asp Arg Gln Asp Gly Ile Leu Arg His Val Glu
      20      25      30
Leu Gly Glu Gly Trp Gly His Val Lys Asp Gln Val Leu Pro Asn Pro
      35      40      45
Asp Ser Asp Asp Phe Leu Ser Ser Ile Leu Gly Ser Gly Asp Ser Leu
      50      55      60
Pro Ser Ser Pro Leu Trp Ser Pro Glu Gly Ser Asp Ser Gly Ile Ser
      65      70      75      80
Glu Asp Leu Pro Ser Asp Pro Gln Asp Thr Pro Pro Arg Ser Gly Pro
      85      90      95
Ala Thr Ser Pro Ala Gly Cys His Pro Ala Gln Pro Gly Lys Gly Pro
      100      105      110
Cys Leu Ser Tyr His Pro Gly Asn Ser Cys Ser Thr Thr Thr Pro Gly

```

```

      115      120      125
Pro Val Ile Gln Gln Gln His His Leu Gly Ala Ser Tyr Leu Leu Arg
  130      135      140
Pro Gly Ala Gly His Cys Gln Glu Leu Val Leu Thr Glu Asp Glu Lys
  145      150      155      160
Lys Leu Leu Ala Lys Glu Gly Ile Thr Leu Pro Thr Gln Leu Pro Leu
      165      170      175
Thr Lys Tyr Glu Glu Arg Val Leu Lys Lys Ile Arg Arg Lys Ile Arg
      180      185      190
Asn Lys Gln Ser Ala Gln Glu Ser Arg Lys Lys Lys Lys Glu Tyr Ile
      195      200      205
Asp Gly Leu Glu Thr Arg Ser Cys Cys Cys Pro Leu Pro Ser Ser Ser
  210      215      220
Ser Pro Pro Ser Ala Leu Leu Ala Pro Thr Lys Pro Arg Ala Leu Gly
  225      230      235      240
Thr Leu Arg Leu Tyr Glu Cys Ser Pro Glu Leu Cys Thr Thr Met Leu
      245      250      255
Pro Pro Ala Trp Leu Leu Met Leu Cys Gln Ala Pro Arg Pro Gln Asp
      260      265      270
Pro Asp Pro Arg Leu Thr Gln Pro Glu Lys Ser Leu Gln Glu Ala Pro
      275      280      285
Gly Gln Thr Gly Ala Ser Arg Thr Pro Arg Thr
  290      295      299

```

```

<210> 1235
<211> 1098
<212> Amino acid
<213> Homo sapiens

```

```

      <400> 1235
Ala Arg Gly Arg Arg Ser Arg Pro Val Trp Ala Ala Ser Trp Gly Gly
  1      5      10      15
Arg Gly Arg Pro Ala Ala Arg Arg Arg Pro Arg Gly Leu Ala Ala Thr
      20      25      30
Met Gly Phe Glu Leu Asp Arg Phe Asp Gly Asp Val Asp Pro Asp Leu
      35      40      45
Lys Cys Ala Leu Cys His Lys Val Leu Glu Asp Pro Leu Thr Thr Pro
      50      55      60
Cys Gly His Val Phe Cys Ala Gly Cys Val Leu Pro Trp Val Val Gln
      65      70      75      80
Glu Gly Ser Cys Pro Ala Arg Cys Arg Gly Arg Leu Ser Ala Lys Glu
      85      90      95
Leu Asn His Val Leu Pro Leu Lys Arg Leu Ile Leu Lys Leu Asp Ile
      100      105      110
Lys Cys Ala Tyr Ala Thr Arg Gly Cys Gly Arg Val Val Lys Leu Gln
      115      120      125
Gln Leu Pro Glu His Leu Glu Arg Cys Asp Phe Ala Pro Ala Arg Cys
      130      135      140
Arg His Ala Gly Cys Gly Gln Val Leu Leu Arg Arg Asp Val Glu Ala
      145      150      155      160
His Met Arg Asp Ala Cys Asp Ala Arg Pro Val Gly Arg Cys Gln Glu
      165      170      175
Gly Cys Gly Leu Pro Leu Thr His Gly Glu Gln Arg Ala Gly Gly His
      180      185      190
Cys Cys Ala Arg Ala Leu Arg Ala His Asn Gly Ala Leu Gln Ala Arg
      195      200      205
Leu Gly Ala Leu His Lys Ala Leu Lys Lys Glu Ala Leu Arg Ala Gly
      210      215      220
Lys Arg Glu Lys Ser Leu Val Ala Gln Leu Ala Ala Ala Gln Leu Glu

```

225		230		235		240									
Leu	Gln	Met	Thr	Ala	Leu	Arg	Tyr	Gln	Lys	Lys	Phe	Thr	Glu	Tyr	Ser
				245					250						255
Ala	Arg	Leu	Asp	Ser	Leu	Ser	Arg	Cys	Val	Ala	Ala	Pro	Pro	Gly	Gly
			260					265						270	
Lys	Gly	Glu	Glu	Thr	Lys	Ser	Leu	Thr	Leu	Val	Leu	His	Arg	Asp	Ser
		275					280					285			
Gly	Ser	Leu	Gly	Phe	Asn	Ile	Ile	Gly	Gly	Arg	Pro	Ser	Val	Asp	Asn
	290				295					300					
His	Asp	Gly	Ser	Ser	Ser	Glu	Gly	Ile	Phe	Val	Ser	Lys	Ile	Val	Asp
305					310					315				320	
Ser	Gly	Pro	Ala	Ala	Lys	Glu	Gly	Gly	Leu	Gln	Ile	His	Asp	Arg	Ile
			325					330						335	
Ile	Glu	Val	Asn	Gly	Arg	Asp	Leu	Ser	Arg	Ala	Thr	His	Asp	Gln	Ala
			340					345					350		
Val	Glu	Ala	Phe	Lys	Thr	Ala	Lys	Glu	Pro	Ile	Val	Val	Gln	Val	Leu
	355						360					365			
Arg	Arg	Thr	Pro	Arg	Thr	Lys	Met	Phe	Thr	Pro	Pro	Ser	Glu	Ser	Gln
	370					375					380				
Leu	Val	Asp	Thr	Gly	Thr	Gln	Thr	Asp	Ile	Thr	Phe	Glu	His	Ile	Met
385					390					395				400	
Ala	Leu	Thr	Lys	Met	Ser	Ser	Pro	Ser	Pro	Pro	Val	Leu	Asp	Pro	Tyr
			405						410					415	
Leu	Leu	Pro	Glu	Glu	His	Pro	Ser	Ala	His	Glu	Tyr	Tyr	Asp	Pro	Asn
			420					425					430		
Asp	Tyr	Ile	Gly	Asp	Ile	His	Gln	Glu	Met	Asp	Arg	Glu	Glu	Leu	Glu
	435						440					445			
Leu	Glu	Glu	Val	Asp	Leu	Tyr	Arg	Met	Asn	Ser	Gln	Asp	Lys	Leu	Gly
	450				455						460				
Leu	Thr	Val	Cys	Tyr	Arg	Thr	Asp	Asp	Glu	Asp	Asp	Ile	Gly	Ile	Tyr
465					470					475				480	
Ile	Ser	Glu	Ile	Asp	Pro	Asn	Ser	Ile	Ala	Ala	Lys	Asp	Gly	Arg	Ile
			485						490				495		
Arg	Glu	Gly	Asp	Arg	Ile	Ile	Gln	Ile	Asn	Gly	Ile	Glu	Val	Gln	Asn
			500					505					510		
Arg	Glu	Glu	Ala	Val	Ala	Leu	Leu	Thr	Ser	Glu	Glu	Asn	Lys	Asn	Phe
	515						520					525			
Ser	Leu	Leu	Ile	Ala	Arg	Ala	Glu	Leu	Gln	Leu	Asp	Glu	Gly	Trp	Met
	530					535					540				
Asp	Asp	Asp	Arg	Asn	Asp	Phe	Leu	Asp	Asp	Leu	His	Met	Asp	Met	Leu
545					550					555					560
Glu	Glu	Gln	His	His	Gln	Ala	Met	Gln	Phe	Thr	Ala	Ser	Val	Leu	Gln
			565						570					575	
Gln	Lys	Lys	His	Asp	Glu	Asp	Gly	Gly	Thr	Thr	Asp	Thr	Ala	Thr	Ile
			580					585					590		
Leu	Ser	Asn	Gln	His	Glu	Lys	Asp	Ser	Gly	Val	Gly	Arg	Thr	Asp	Glu
		595					600					605			
Ser	Thr	Arg	Asn	Asp	Glu	Ser	Ser	Glu	Gln	Glu	Asn	Asn	Gly	Asp	Asp
	610					615					620				
Ala	Thr	Ala	Ser	Ser	Asn	Pro	Leu	Ala	Gly	Gln	Arg	Lys	Leu	Thr	Cys
625					630					635				640	
Ser	Gln	Asp	Thr	Leu	Gly	Ser	Gly	Asp	Leu	Pro	Phe	Ser	Asn	Lys	Ser
			645					650						655	
Phe	Ile	Ser	Pro	Glu	Cys	Thr	Gly	Ala	Ala	Tyr	Leu	Gly	Ile	Pro	Val
			660					665					670		
Asp	Glu	Cys	Glu	Arg	Phe	Arg	Glu	Leu	Leu	Glu	Leu	Lys	Cys	Gln	Val
	675						680					685			
Lys	Ser	Ala	Thr	Pro	Tyr	Gly	Leu	Tyr	Tyr	Pro	Ser	Gly	Pro	Leu	Asp
	690					695					700				
Ala	Gly	Lys	Ser	Asp	Pro	Glu	Ser	Val	Asp	Lys	Glu	Leu	Glu	Leu	Leu
705					710					715				720	
Asn	Glu	Glu	Leu	Arg	Ser	Ile	Glu	Leu	Glu	Cys	Leu	Ser	Ile	Val	Arg
			725						730					735	
Ala	His	Lys	Met	Gln	Gln	Leu	Lys	Glu	Gln	Tyr	Arg	Glu	Ser	Trp	Met

740 745 750
 Leu His Asn Ser Gly Phe Arg Asn Tyr Asn Thr Ser Ile Asp Val Arg
 755 760 765
 Arg His Glu Leu Ser Asp Ile Thr Glu Leu Pro Glu Lys Ser Asp Lys
 770 775 780
 Asp Ser Ser Ser Ala Tyr Asn Thr Gly Glu Ser Cys Arg Ser Thr Pro
 785 790 795 800
 Leu Thr Leu Glu Ile Ser Pro Asp Asn Ser Leu Arg Arg Ala Ala Glu
 805 810 815
 Gly Ile Ser Cys Pro Ser Ser Glu Gly Ala Val Gly Thr Thr Glu Ala
 820 825 830
 Tyr Gly Pro Ala Ser Lys Asn Leu Leu Ser Ile Thr Glu Asp Pro Glu
 835 840 845
 Val Gly Thr Pro Thr Tyr Ser Pro Ser Leu Lys Glu Leu Asp Pro Asn
 850 855 860
 Gln Pro Leu Glu Ser Lys Glu Arg Arg Ala Ser Asp Gly Ser Arg Ser
 865 870 875 880
 Pro Thr Pro Ser Gln Lys Leu Gly Ser Ala Tyr Leu Pro Ser Tyr His
 885 890 895
 His Ser Pro Tyr Lys His Ala His Ile Pro Ala His Ala Gln His Tyr
 900 905 910
 Gln Ser Tyr Met Gln Leu Ile Gln Gln Lys Ser Ala Val Glu Tyr Ala
 915 920 925
 Gln Ser Gln Met Ser Leu Val Ser Met Cys Lys Asp Leu Ser Ser Pro
 930 935 940
 Thr Pro Ser Glu Pro Arg Met Glu Trp Lys Val Lys Ile Arg Ser Asp
 945 950 955 960
 Gly Thr Arg Tyr Ile Thr Lys Arg Pro Val Arg Asp Arg Leu Leu Arg
 965 970 975
 Glu Arg Ala Leu Lys Ile Arg Glu Glu Arg Ser Gly Met Thr Thr Asp
 980 985 990
 Asp Asp Ala Val Ser Glu Met Lys Met Gly Arg Tyr Trp Ser Lys Glu
 995 1000 1005
 Glu Arg Lys Gln His Leu Val Lys Ala Lys Glu Gln Arg Arg Arg Arg
 1010 1015 1020
 Glu Phe Met Met Gln Ser Arg Leu Asp Cys Leu Lys Glu Gln Gln Ala
 1025 1030 1035 1040
 Ala Asp Asp Arg Lys Glu Met Asn Ile Leu Glu Leu Ser His Lys Lys
 1045 1050 1055
 Met Met Lys Lys Arg Asn Lys Lys Ile Phe Asp Asn Trp Met Thr Ile
 1060 1065 1070
 Gln Glu Leu Leu Thr His Gly Thr Lys Ser Pro Asp Gly Thr Arg Val
 1075 1080 1085
 Tyr Asn Ser Phe Leu Ser Val Thr Thr Val
 1090 1095 1098

<210> 1236

<211> 51

<212> Amino acid

<213> Homo sapiens

<400> 1236

Phe Phe Phe Leu Val Glu Met Gly Phe Cys His Val Gly Gln Gly Gly
 1 5 10 15
 Leu Thr Leu Ile Gly Ser Ser Asn Leu Pro Ala Ser Ala Ser Lys Ser
 20 25 30
 Ala Gly Ile Thr Gly Val Ser His Cys Ala Arg Pro Asp Phe Lys Ser
 35 40 45
 Cys Val Glu

50 51

<210> 1237
 <211> 70
 <212>Amino acid
 <213> Homo sapiens

<400> 1237
 Leu Ala Gly Arg Lys Val Leu Leu Phe Val Ser Gly Tyr Val Val Gly
 1 5 10 15
 Trp Gly Pro Ile Thr Trp Leu Leu Met Ser Glu Val Leu Pro Leu Arg
 20 25 30
 Ala Arg Gly Val Ala Ser Gly Leu Cys Val Leu Ala Ser Trp Leu Thr
 35 40 45
 Ala Phe Val Leu Thr Lys Ser Phe Leu Pro Gly Gly Val Ser Val Gln
 50 55 60
 Pro Gln Ala Pro Gly Pro
 65 70

<210> 1238
 <211> 114
 <212>Amino acid
 <213> Homo sapiens

<400> 1238
 Phe Trp Ala Pro Gly Pro Pro Gly Val Gly Ala Ala Val Gly Asp Ala
 1 5 10 15
 Ser Thr Arg Ser Leu Arg Glu Ser Cys Pro Ser Pro Ser Pro Gly Arg
 20 25 30
 Leu Arg Arg Thr Thr Ala Pro Trp Ser Ser Gln Ala Arg Ala Ala Ala
 35 40 45
 Pro Ala Pro Ser Ser Ser Cys Arg Gly Pro Asp Gly Ala Ser Ser Pro
 50 55 60
 Arg Asp Leu Pro Trp Arg Pro Trp Lys Ile Leu Arg Arg Thr Pro Leu
 65 70 75 80
 Ser Gly Asp Val Glu Leu Ser Gln Val His Pro Asp Gln Arg Ile Leu
 85 90 95
 Arg Arg Phe Ile Leu Ser Arg Thr Cys Gly Asn Thr Ile Pro Gly Met
 100 105 110
 Ala Glu
 114

<210> 1239
 <211> 174
 <212>Amino acid
 <213> Homo sapiens

<400> 1239
 Met Arg Arg Phe Leu Ser Lys Val Tyr Ser Phe Pro Met Arg Lys Leu

```

      1           5           10           15
Ile Leu Phe Leu Val Phe Pro Val Val Arg Gln Thr Pro Thr Gln His
      20           25           30
Phe Lys Asn Gln Phe Pro Ala Leu His Trp Glu His Glu Leu Gly Leu
      35           40           45
Ala Phe Thr Lys Asn Arg Met Asn Tyr Thr Asn Lys Phe Leu Leu Ile
      50           55           60
Pro Glu Ser Gly Asp Tyr Phe Ile Tyr Ser Gln Val Thr Phe Arg Gly
      65           70           75           80
Met Thr Ser Glu Cys Ser Glu Ile Arg Gln Ala Gly Arg Pro Asn Lys
      85           90           95
Pro Asp Ser Ile Thr Val Val Ile Thr Lys Val Thr Asp Ser Tyr Pro
      100           105           110
Glu Pro Thr Gln Leu Leu Met Gly Thr Lys Ser Val Cys Glu Val Gly
      115           120           125
Ser Asn Trp Phe Gln Pro Ile Tyr Leu Gly Ala Met Phe Ser Leu Gln
      130           135           140
Glu Gly Asp Lys Leu Met Val Asn Val Ser Asp Ile Ser Leu Val Asp
      145           150           155           160
Tyr Thr Lys Glu Asp Lys Thr Phe Phe Gly Ala Phe Leu Leu
      165           170           174

```

<210> 1240
 <211> 425
 <212> Amino acid
 <213> Homo sapiens

```

      <400> 1240
Phe Val Trp Asp Glu Val Ala Gln Arg Ser Gly Cys Glu Glu Arg Trp
      1           5           10           15
Leu Val Ile Asp Arg Lys Val Tyr Asn Ile Ser Glu Phe Thr Arg Arg
      20           25           30
His Pro Gly Gly Ser Arg Val Ile Ser His Tyr Ala Gly Gln Asp Ala
      35           40           45
Thr Asp Pro Phe Val Ala Phe His Ile Asn Lys Gly Leu Val Lys Lys
      50           55           60
Tyr Met Asn Ser Leu Leu Ile Gly Glu Leu Ser Pro Glu Gln Pro Ser
      65           70           75           80
Phe Glu Pro Thr Lys Asn Lys Glu Leu Thr Asp Glu Phe Arg Glu Leu
      85           90           95
Arg Ala Thr Val Glu Arg Met Gly Leu Met Lys Ala Asn His Val Phe
      100           105           110
Phe Leu Leu Tyr Leu Leu His Ile Leu Leu Leu Asp Gly Ala Ala Trp
      115           120           125
Leu Thr Leu Trp Val Phe Gly Thr Ser Phe Leu Pro Phe Leu Leu Cys
      130           135           140
Ala Val Leu Leu Ser Ala Val Gln Ala Gln Ala Gly Trp Leu Gln His
      145           150           155           160
Asp Phe Gly His Leu Ser Val Phe Ser Thr Ser Lys Trp Asn His Leu
      165           170           175
Leu His His Phe Val Ile Gly His Leu Lys Gly Ala Pro Ala Ser Trp
      180           185           190
Trp Asn His Met His Phe Gln His His Ala Lys Pro Asn Cys Phe Arg
      195           200           205
Lys Asp Pro Asp Ile Asn Met His Pro Phe Phe Phe Ala Leu Gly Lys
      210           215           220
Ile Leu Ser Val Glu Leu Gly Lys Gln Lys Lys Tyr Met Pro Tyr
      225           230           235           240
Asn His Gln His Lys Tyr Phe Phe Leu Ile Gly Pro Pro Ala Leu Leu

```

```

                245                250                255
Pro Leu Tyr Phe Gln Trp Tyr Ile Phe Tyr Phe Val Ile Gln Arg Lys
                260                265                270
Lys Trp Val Asp Leu Ala Trp Met Ile Thr Phe Tyr Val Arg Phe Phe
                275                280                285
Leu Thr Tyr Val Pro Leu Leu Gly Leu Lys Ala Phe Leu Gly Leu Phe
                290                295                300
Phe Ile Val Arg Phe Leu Glu Ser Asn Trp Phe Val Trp Val Thr Gln
305                310                315                320
Met Asn His Ile Pro Met His Ile Asp His Asp Arg Asn Met Asp Trp
                325                330                335
Val Ser Thr Gln Leu Gln Ala Thr Cys Asn Val His Lys Ser Ala Phe
                340                345                350
Asn Asp Trp Phe Ser Gly His Leu Asn Phe Gln Ile Glu His His Leu
                355                360                365
Phe Pro Thr Met Pro Arg His Asn Tyr His Lys Val Ala Pro Leu Val
370                375                380
Gln Ser Leu Cys Ala Lys His Gly Ile Glu Tyr Gln Ser Lys Pro Leu
385                390                395                400
Leu Ser Ala Phe Ala Asp Ile Ile His Ser Leu Lys Glu Ser Gly Gln
                405                410                415
Leu Trp Leu Asp Ala Tyr Leu His Gln
                420                425

```

<210> 1241
 <211> 152
 <212> Amino acid
 <213> Homo sapiens

```

    <400> 1241
Gln Cys Gly Gly Ile Pro Tyr Asn Thr Thr Gln Phe Leu Met Asn Asp
  1                5                10                15
Arg Asp Pro Glu Glu Pro Asn Leu Asp Val Pro His Gly Ile Ser His
                20                25                30
Pro Gly Ser Ser Gly Glu Ser Glu Ala Gly Asp Ser Asp Gly Arg Gly
                35                40                45
Arg Ala His Gly Glu Phe Gln Arg Lys Asp Phe Ser Glu Thr Tyr Glu
                50                55                60
Arg Phe His Thr Glu Ser Leu Gln Gly Arg Ser Lys Gln Glu Leu Val
                65                70                75                80
Arg Asp Tyr Leu Glu Leu Glu Lys Arg Leu Ser Gln Ala Glu Glu Glu
                85                90                95
Thr Arg Arg Leu Gln Gln Leu Gln Ala Cys Thr Gly Gln Gln Ser Cys
                100                105                110
Arg Gln Val Glu Glu Leu Ala Ala Glu Val Gln Arg Leu Arg Thr Glu
                115                120                125
Asn Gln Arg Leu Arg Gln Glu Asn Gln Met Trp Asn Arg Glu Gly Cys
                130                135                140
Arg Cys Asp Glu Glu Pro Gly Thr
145                150                152

```

<210> 1242
 <211> 191
 <212> Amino acid
 <213> Homo sapiens

<400> 1242

```

Ser Pro Glu Arg Ser Ser Leu Ser Val Gly Arg Glu Lys Ala Met Glu
 1           5           10           15
Val Pro Pro Pro Ala Pro Arg Ser Phe Leu Cys Arg Ala Leu Cys Leu
          20           25           30
Phe Pro Arg Val Phe Ala Ala Glu Ala Val Thr Ala Asp Ser Glu Val
          35           40           45
Leu Glu Glu Arg Gln Lys Arg Leu Pro Tyr Val Pro Glu Pro Tyr Tyr
          50           55           60
Pro Glu Ser Gly Trp Asp Arg Leu Arg Glu Leu Phe Gly Lys Asp Val
          65           70           75           80
Thr Gly Ser Leu Phe Arg Ile Asn Val Gly Leu Arg Gly Leu Val Ala
          85           90           95
Gly Gly Ile Ile Gly Ala Leu Leu Gly Thr Pro Val Gly Gly Leu Leu
          100          105          110
Met Ala Phe Gln Lys Tyr Ser Gly Glu Thr Val Gln Glu Arg Lys Gln
          115          120          125
Lys Asp Arg Lys Ala Leu His Glu Leu Lys Leu Glu Glu Trp Lys Gly
          130          135          140
Arg Leu Gln Val Thr Glu His Leu Pro Glu Lys Ile Glu Ser Ser Leu
          145          150          155          160
Gln Glu Asp Glu Pro Glu Asn Asp Ala Lys Lys Ile Glu Ala Leu Leu
          165          170          175
Asn Leu Pro Arg Asn Pro Ser Val Ile Asp Lys Gln Asp Lys Asp
          180          185          190 191

```

<210> 1243

<211> 381

<212> Amino acid

<213> Homo sapiens

<400> 1243

```

Arg Ser Leu Gly Leu Ala Val Thr Glu Met Val Pro Trp Val Arg Thr
 1           5           10           15
Met Gly Gln Lys Leu Lys Gln Arg Leu Arg Leu Asp Val Gly Arg Glu
          20           25           30
Ile Cys Arg Gln Tyr Pro Leu Phe Cys Phe Leu Leu Leu Cys Leu Ser
          35           40           45
Ala Ala Ser Leu Leu Leu Asn Arg Tyr Ile His Ile Leu Met Ile Phe
          50           55           60
Trp Ser Phe Val Ala Gly Val Val Thr Phe Tyr Cys Ser Leu Gly Pro
          65           70           75           80
Asp Ser Leu Leu Pro Asn Ile Phe Phe Thr Ile Lys Tyr Lys Pro Lys
          85           90           95
Gln Leu Gly Leu Gln Glu Leu Phe Pro Gln Gly His Ser Cys Ala Val
          100          105          110
Cys Gly Lys Val Lys Cys Lys Arg His Arg Pro Ser Leu Leu Glu
          115          120          125
Asn Tyr Gln Pro Trp Leu Asp Leu Lys Ile Ser Ser Lys Val Asp Ala
          130          135          140
Ser Leu Ser Glu Val Leu Glu Leu Val Leu Glu Asn Phe Val Tyr Pro
          145          150          155          160
Trp Tyr Arg Asp Val Thr Asp Asp Glu Ser Phe Val Asp Glu Leu Arg
          165          170          175
Ile Thr Leu Arg Phe Phe Ala Ser Val Leu Ile Arg Arg Ile His Lys
          180          185          190
Val Asp Ile Pro Ser Ile Ile Thr Lys Lys Leu Leu Lys Ala Ala Met

```

```

      195      200      205
Lys His Ile Glu Val Ile Val Lys Ala Arg Gln Lys Val Lys Asn Thr
  210      215      220
Glu Phe Leu Gln Gln Ala Ala Leu Glu Glu Tyr Gly Pro Glu Leu His
  225      230      235      240
Val Ala Leu Arg Ser Arg Arg Asp Glu Leu His Tyr Leu Arg Lys Leu
      245      250      255
Thr Glu Leu Leu Phe Pro Tyr Ile Leu Pro Pro Lys Ala Thr Asp Cys
      260      265      270
Arg Ser Leu Thr Leu Leu Ile Arg Glu Ile Leu Ser Gly Ser Val Phe
      275      280      285
Leu Pro Ser Leu Asp Phe Leu Ala Asp Pro Asp Thr Val Asn His Leu
      290      295      300
Leu Ile Ile Phe Ile Asp Asp Ser Pro Pro Glu Lys Ala Thr Glu Pro
  305      310      315      320
Ala Ser Pro Leu Val Pro Phe Leu Gln Lys Phe Ala Glu Pro Arg Asn
      325      330      335
Lys Lys Pro Ser Val Leu Lys Leu Glu Leu Lys Gln Ile Arg Glu Gln
      340      345      350
Gln Asp Leu Leu Phe Arg Phe Met Asn Phe Leu Lys Gln Glu Gly Ala
      355      360      365
Val His Val Leu His Val Leu Phe Asp Cys Gly Gly Ile
      370      375      380 381

```

<210> 1244

<211> 371

<212>Amino acid

<213> Homo sapiens

<400> 1244

```

      1      5      10      15
Gln Ser Leu Ala Glu Val Leu Gln Gln Leu Gly Ala Ser Ser Glu Leu
  1      5      10      15
Gln Ala Val Leu Ser Tyr Ile Phe Pro Thr Tyr Gly Val Thr Pro Asn
      20      25      30
His Ser Ala Phe Ser Met His Ala Leu Leu Val Asn His Tyr Met Lys
      35      40      45
Gly Gly Phe Tyr Pro Arg Gly Val Thr Ser Glu Ile Ala Phe His Thr
      50      55      60
Ile Pro Val Ile Gln Arg Ala Gly Gly Ala Val Leu Thr Lys Ala Thr
      65      70      75      80
Val Gln Ser Val Leu Leu Asp Ser Ala Gly Lys Ala Cys Gly Val Ser
      85      90      95
Val Lys Lys Gly His Glu Leu Val Asn Ile Tyr Cys Pro Ile Val Val
      100      105      110
Ser Asn Ala Gly Leu Phe Asn Thr Tyr Glu His Leu Leu Pro Gly Asn
      115      120      125
Ala Arg Cys Leu Pro Gly Val Lys Gln Gln Leu Gly Thr Val Arg Pro
      130      135      140
Gly Leu Gly Met Thr Ser Val Phe Ile Cys Leu Arg Gly Thr Lys Glu
  145      150      155      160
Asp Leu His Leu Pro Ser Thr Asn Tyr Tyr Val Tyr Tyr Asp Thr Asp
      165      170      175
Met Asp Gln Ala Met Glu Arg Tyr Val Ser Met Pro Arg Glu Glu Ala
      180      185      190
Ala Glu His Ile Pro Leu Leu Phe Ala Phe Pro Ser Ala Lys Asp
      195      200      205
Pro Thr Trp Glu Asp Arg Phe Pro Gly Arg Ser Thr Met Ile Met Leu
      210      215      220
Ile Pro Thr Ala Tyr Glu Trp Phe Glu Glu Trp Gln Ala Glu Leu Lys

```

225 230 235 240
 Gly Lys Arg Gly Ser Asp Tyr Glu Thr Phe Lys Asn Ser Phe Val Glu
 245 250 255
 Ala Ser Met Ser Val Val Leu Lys Leu Phe Pro Gln Leu Glu Gly Lys
 260 265 270
 Val Glu Ser Val Thr Ala Gly Ser Pro Leu Thr Asn Gln Phe Tyr Leu
 275 280 285
 Ala Ala Pro Arg Gly Ala Cys Tyr Gly Ala Asp His Asp Leu Gly Arg
 290 295 300
 Leu His Pro Cys Val Met Ala Ser Leu Arg Ala Gln Ser Pro Ile Pro
 305 310 315 320
 Asn Leu Tyr Leu Thr Gly Gln Asp Ile Phe Thr Cys Gly Leu Val Gly
 325 330 335
 Ala Leu Gln Gly Ala Leu Leu Cys Ser Ser Thr Ile Leu Lys Arg Asn
 340 345 350
 Leu Tyr Ser Asp Leu Lys Asn Leu Asp Ser Arg Ile Arg Ala Gln Lys
 355 360 365
 Lys Lys Asn
 370 371

<210> 1245
 <211> 295
 <212> Amino acid
 <213> Homo sapiens

<400> 1245
 Arg Pro Gln Glu Thr Arg Val Leu Gln Val Ser Cys Gly Arg Ala His
 1 5 10 15
 Ser Leu Val Leu Thr Asp Arg Glu Gly Val Phe Ser Met Gly Asn Asn
 20 25 30
 Ser Tyr Gly Gln Cys Gly Arg Lys Val Val Glu Asn Glu Ile Tyr Ser
 35 40 45
 Glu Ser His Arg Val His Arg Met Gln Asp Phe Asp Gly Gln Val Val
 50 55 60
 Gln Val Ala Cys Gly Gln Asp His Ser Leu Phe Leu Thr Asp Lys Gly
 65 70 75 80
 Glu Val Tyr Ser Cys Gly Trp Gly Ala Asp Gly Gln Thr Gly Leu Gly
 85 90 95
 His Tyr Asn Ile Thr Ser Ser Pro Thr Lys Leu Gly Gly Asp Leu Ala
 100 105 110
 Gly Val Asn Val Ile Gln Val Ala Thr Tyr Gly Asp Cys Cys Leu Ala
 115 120 125
 Val Ser Ala Asp Gly Gly Leu Phe Gly Trp Gly Asn Ser Glu Tyr Leu
 130 135 140
 Gln Leu Ala Ser Val Thr Asp Ser Thr Gln Val Asn Val Pro Arg Cys
 145 150 155 160
 Leu His Phe Ser Gly Val Gly Lys Val Arg Gln Ala Ala Cys Gly Gly
 165 170 175
 Thr Gly Cys Ala Val Leu Asn Gly Glu Gly His Val Phe Val Trp Gly
 180 185 190
 Tyr Gly Ile Leu Gly Lys Gly Pro Asn Leu Val Glu Ser Ala Val Pro
 195 200 205
 Glu Met Ile Pro Pro Thr Leu Phe Gly Leu Thr Glu Phe Asn Pro Glu
 210 215 220
 Ile Gln Val Ser Arg Ile Arg Cys Gly Leu Ser His Phe Ala Ala Leu
 225 230 235 240
 Thr Asn Lys Gly Glu Leu Phe Val Trp Gly Lys Asn Ile Arg Gly Cys
 245 250 255
 Leu Gly Ile Gly Arg Leu Glu Asp Gln Tyr Phe Pro Trp Arg Val Thr

260 265 270
 Met Pro Gly Glu Pro Val Asp Val Ala Cys Gly Val Asp His Met Val
 275 280 285
 Thr Leu Ala Lys Ser Phe Ile
 290 295

<210> 1246
 <211> 172
 <212> Amino acid
 <213> Homo sapiens

<400> 1246
 Leu Pro Phe Arg Glu Trp Leu Met Ile Val Val Ser Leu Ser Ala Ala
 1 5 10 15
 Ala Val Ala Ala Ala Phe Met Ala Lys Cys Arg Met Val Leu Ser Ser
 20 25 30
 Arg Tyr Phe Cys Ser His Phe Val Met Ser Ala Ser Arg Ala Arg Ile
 35 40 45
 Arg Ser Ser Phe Ser Arg Thr Ser Ser Arg Arg Ala Gly Ala Leu Tyr
 50 55 60
 Ser Gly Met Leu Ala Gly Trp Pro Phe Pro Cys Phe Cys Trp Val Leu
 65 70 75 80
 Ser Ala Ser Ser Ser Leu Ser Ser Gln Val Arg Ser Leu Arg Ser Ile
 85 90 95
 Cys Ser Arg Phe Ser His Ala Asp Cys Ser Trp Val Arg Ala Cys Cys
 100 105 110
 Ser Phe Ser Thr Phe Ser Thr Tyr Ala Cys Phe Ser Arg Asn Ser Ser
 115 120 125
 Ser Ser Leu Met Thr Leu Ala Trp Ala Leu Leu Lys Ala Trp Ser Arg
 130 135 140
 Ile Ser Met Cys Leu Arg Trp Ser Ser Leu Ala Val Arg Thr Ala Ala
 145 150 155 160
 Asn Ser Ile Ser Asn Phe Ser Phe Ser Phe Lys Asn
 165 170 172

<210> 1247
 <211> 361
 <212> Amino acid
 <213> Homo sapiens

<400> 1247
 Met Gln Ala Val Arg Ala Thr Ala Ser Gln Ser Leu Ser Cys Ala Arg
 1 5 10 15
 Ala Pro Arg Glu Pro Thr Gln His Ala Leu Arg Ala His Trp Phe Pro
 20 25 30
 Pro Ala Ala Ala Val Gln Pro Ser Pro His Ser Gly Val Ala Ala Ala
 35 40 45
 Ala Gly Thr Trp Ser Ser Ala Phe Arg Gly Glu His Pro Leu Val Ser
 50 55 60
 Ser Gly Leu Leu Leu Gly Val Arg Glu Gln Ser Phe Arg Leu Leu Arg
 65 70 75 80
 Ser Lys Ala Gly Thr His Met Tyr Leu Glu His Thr Ser His Cys Pro
 85 90 95
 His His Asp Asp Asp Thr Ala Met Asp Thr Pro Leu Pro Arg Pro Arg

```

      100      105      110
Pro Leu Leu Ala Val Glu Arg Thr Gly Gln Arg Pro Leu Trp Ala Pro
      115      120      125
Ser Leu Glu Leu Pro Lys Pro Asp Met Gln Pro Leu Pro Ala Gly Ala
      130      135      140
Phe Leu Glu Glu Val Ala Glu Gly Thr Pro Ala Gln Thr Glu Ser Glu
      145      150      155      160
Pro Lys Val Leu Asp Pro Glu Glu Asp Leu Leu Cys Ile Ala Lys Thr
      165      170      175
Phe Ser Tyr Leu Arg Glu Ser Gly Trp Tyr Trp Gly Ser Ile Thr Ala
      180      185      190
Ser Glu Ala Arg Gln His Leu Gln Lys Met Pro Glu Gly Thr Phe Leu
      195      200      205
Val Arg Asp Ser Thr His Pro Ser Tyr Leu Phe Thr Leu Ser Val Lys
      210      215      220
Thr Thr Arg Gly Pro Thr Asn Val Arg Ile Glu Tyr Ala Asp Ser Ser
      225      230      235      240
Phe Arg Leu Asp Ser Asn Cys Leu Ser Arg Pro Arg Ile Leu Ala Phe
      245      250      255
Pro Asp Val Val Ser Leu Val Gln His Tyr Val Ala Ser Cys Thr Ala
      260      265      270
Asp Thr Arg Ser Asp Ser Pro Asp Pro Ala Pro Thr Pro Ala Leu Pro
      275      280      285
Met Pro Lys Glu Asp Ala Pro Ser Asp Pro Ala Leu Pro Ala Pro Pro
      290      295      300
Pro Ala Thr Ala Val His Leu Lys Leu Val Gln Pro Phe Val Arg Arg
      305      310      315      320
Ser Ser Ala Arg Ser Leu Gln His Leu Cys Arg Leu Val Ile Asn Arg
      325      330      335
Leu Val Ala Asp Val Asp Cys Leu Pro Leu Pro Arg Arg Met Ala Asp
      340      345      350
Tyr Leu Arg Gln Tyr Pro Phe Gln Leu
      355      360 361

```

<210> 1248
 <211> 279
 <212> Amino acid
 <213> Homo sapiens

```

      <400> 1248
Phe Val Asp Ile Phe Gln Arg Trp Lys Glu Cys Arg Gly Lys Ser Pro
      1      5      10      15
Ala Gln Ala Glu Leu Ser Tyr Leu Asn Lys Ala Lys Trp Leu Glu Met
      20      25      30
Tyr Gly Val Asp Met His Val Val Arg Gly Arg Asp Gly Cys Glu Tyr
      35      40      45
Ser Leu Gly Leu Thr Pro Thr Gly Ile Leu Ile Phe Glu Gly Ala Asn
      50      55      60
Lys Ile Gly Leu Phe Phe Trp Pro Lys Ile Thr Lys Met Asp Phe Lys
      65      70      75      80
Lys Ser Lys Leu Thr Leu Val Val Val Glu Asp Asp Asp Gln Gly Arg
      85      90      95
Glu Gln Glu His Thr Phe Val Phe Arg Leu Asp Ser Ala Arg Thr Cys
      100      105      110
Lys His Leu Trp Lys Cys Ala Val Glu His His Ala Phe Phe Arg Leu
      115      120      125
Arg Thr Pro Gly Asn Ser Lys Ser Asn Arg Ser Asp Phe Ile Arg Leu
      130      135      140
Gly Ser Arg Phe Arg Phe Ser Gly Arg Thr Glu Tyr Gln Ala Thr His

```

```

145          150          155          160
Gly Ser Arg Leu Arg Arg Thr Ser Thr Phe Glu Arg Lys Pro Ser Lys
          165          170          175
Arg Tyr Pro Ser Arg Arg His Ser Thr Phe Lys Ala Ser Asn Pro Val
          180          185          190
Ile Ala Ala Gln Leu Cys Ser Lys Thr Asn Pro Glu Val His Asn Tyr
          195          200          205
Gln Pro Gln Tyr His Pro Asn Ile His Pro Ser Gln Pro Arg Trp His
          210          215          220
Pro His Ser Pro Asn Val Arg Pro Ser Phe Gln Asp Asp Arg Ser His
225          230          235          240
Trp Lys Ala Ser Ala Ser Gly Asp Asp Ser His Phe Asp Tyr Val His
          245          250          255
Asp Gln Asn Gln Lys Asn Leu Gly Gly Met Gln Ser Met Met Tyr Arg
          260          265          270
Asp Lys Leu Met Thr Ala Leu
          275          279

```

<210> 1249

<211> 255

<212> Amino acid

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(255)

<223> X = any amino acid or stop code

<400> 1249

```

Gly Gly Ile Arg Leu Ile Gln Lys Leu Thr Trp Arg Ser Arg Gln Gln
  1          5          10          15
Asp Arg Glu Asn Cys Ala Met Lys Gly Lys His Lys Asp Glu Cys His
          20          25          30
Asn Phe Ile Lys Val Phe Val Pro Arg Asn Asp Glu Met Val Phe Val
          35          40          45
Cys Gly Thr Asn Ala Phe Asn Pro Met Cys Arg Tyr Tyr Arg Val Ser
          50          55          60
Ile Phe Tyr Val Ile Cys Phe Phe Xaa Ser Thr Phe Leu Pro Ser Leu
          65          70          75          80
Ile Cys Cys Xaa Ser Xaa Asn Leu Ser Ala Phe Gln Xaa Phe Val Leu
          85          90          95
Ser Leu Val Gln Xaa Lys Asn Lys Asp Arg Ile Leu Gln Met Glu Phe
          100          105          110
Xaa Tyr Lys Xaa Asn Ser Ile Ala Phe Lys Arg Ala Arg Xaa Ile Asp
          115          120          125
Met Thr Leu Ala Ile Tyr Phe Ser Phe Val Leu Ser Thr Leu Xaa Tyr
          130          135          140
Asp Gly Glu Glu Ile Ser Gly Leu Ala Arg Cys Pro Phe Asp Ala Arg
145          150          155          160
Gln Thr Asn Gly Ala Leu Phe Ala Asp Gly Lys Leu Tyr Ser Ala Thr
          165          170          175
Val Ala Asp Phe Leu Ala Ser Asp Ala Val Ile Tyr Arg Ser Met Gly
          180          185          190
Asp Gly Ser Ala Leu Arg Thr Ile Lys Tyr Asp Ser Lys Trp Ile Lys
          195          200          205
Glu Pro His Phe Leu Tyr Ala Ile Lys Tyr Gly Asn Tyr Val Tyr Phe
          210          215          220
Ser Phe Arg Glu Ile Val Ala Thr Xaa Xaa Leu Gly Lys Ala Val Asp
225          230          235          240

```

Ser Arg Val Ala Arg Tyr Glu Lys Gln Leu Val Gly Pro Thr Val
 245 250 255

<210> 1250
 <211> 307
 <212> Amino acid
 <213> Homo sapiens

<400> 1250
 Ala Arg Ala Leu Ala Arg Glu Arg Glu Ser Glu Ser Ala Arg Ala Asp
 1 5 10 15
 Asp Val Thr Leu Gly Val Ser Ala Ile Leu Ala Val Asp Arg Gly Gly
 20 25 30
 Asn Leu Gly Ser Ala Asp Gly Trp Ala Tyr Ile Asp Val Glu Val Arg
 35 40 45
 Arg Pro Trp Ala Phe Val Gly Pro Gly Cys Ser Arg Ser Ser Gly Asn
 50 55 60
 Gly Ser Thr Ala Tyr Gly Leu Val Gly Ser Pro Arg Trp Leu Ser Pro
 65 70 75 80
 Phe His Thr Gly Gly Ala Val Ser Leu Pro Arg Arg Pro Arg Gly Pro
 85 90 95
 Gly Pro Val Leu Gly Val Ala Arg Pro Cys Leu Arg Cys Val Leu Arg
 100 105 110
 Pro Glu His Tyr Glu Pro Gly Ser His Tyr Ser Gly Phe Ala Gly Arg
 115 120 125
 Asp Ala Ser Arg Ala Phe Val Thr Gly Asp Cys Ser Glu Ala Gly Leu
 130 135 140
 Val Asp Asp Val Ser Asp Leu Ser Ala Ala Glu Met Leu Thr Leu His
 145 150 155 160
 Asn Trp Leu Ser Phe Tyr Glu Lys Asn Tyr Val Cys Val Gly Arg Val
 165 170 175
 Thr Gly Arg Phe Tyr Gly Glu Asp Gly Leu Pro Thr Pro Ala Leu Thr
 180 185 190
 Gln Val Glu Ala Ala Ile Thr Arg Gly Leu Glu Ala Asn Lys Leu Gln
 195 200 205
 Leu Gln Glu Lys Gln Thr Phe Pro Pro Cys Asn Ala Glu Trp Ser Ser
 210 215 220
 Ala Arg Gly Ser Arg Leu Trp Cys Ser Gln Lys Ser Gly Gly Val Ser
 225 230 235 240
 Arg Asp Trp Ile Gly Val Pro Arg Lys Leu Tyr Lys Pro Gly Ala Lys
 245 250 255
 Glu Pro Arg Cys Val Cys Val Arg Thr Thr Gly Pro Pro Ser Gly Gln
 260 265 270
 Met Pro Asp Asn Pro Pro His Arg Asn Arg Gly Asp Leu Asp His Pro
 275 280 285
 Asn Leu Ala Glu Tyr Thr Gly Cys Pro Pro Leu Ala Ile Thr Cys Ser
 290 295 300
 Phe Pro Leu
 305 307

<210> 1251
 <211> 100
 <212> Amino acid
 <213> Homo sapiens

<400> 1251

```

Tyr Phe Ile Ile Cys Arg Asp Gly Val Leu Leu Phe Cys Pro Gly Trp
 1           5           10           15
Ser Gln Thr Pro Gly Ala Gln Ala Ile Leu Leu His Trp Ala Thr Gln
           20           25           30
Asn Ala Gly Met Thr Asp Met Ser His Ser Ala Gln Pro Ile Tyr Leu
           35           40           45
Phe Ile Tyr Leu Ile Arg Thr Arg Ser His Tyr Val Ala Gln Ala Gly
 50           55           60
Gln Leu Leu Asp Ser Asn Asp Ser Pro Asn Val Ala Ser Gln Asn Val
 65           70           75           80
Gly Ile Thr Gly Met Ser His His Ala Trp Leu Lys Ile Val Leu Tyr
           85           90           95
Phe Cys Ile Ile
           100

```

<210> 1252

<211> 464

<212> Amino acid

<213> Homo sapiens

<400> 1252

```

Pro Ala Ala Arg Pro Pro Ser Leu Val Arg Leu Ser Pro Ser Pro Pro
 1           5           10           15
Lys Pro Arg Ala Arg Ala Arg Ala Pro Gln Ser Val Glu Pro Ala Ala
           20           25           30
Pro Leu Val Ala Arg Gly Ser Ser Pro Pro Ala Arg Pro Ala Pro Ala
           35           40           45
Met Val Arg Pro Arg Arg Ala Pro Tyr Arg Ser Gly Ala Gly Gly Pro
 50           55           60
Leu Gly Gly Arg Gly Arg Pro Pro Arg Pro Leu Val Val Arg Ala Val
 65           70           75           80
Arg Ser Arg Ser Trp Pro Ala Ser Pro Arg Gly Pro Gln Pro Pro Arg
           85           90           95
Ile Arg Ala Arg Ser Ala Pro Pro Met Glu Gly Ala Arg Val Phe Gly
           100           105           110
Ala Leu Gly Pro Ile Gly Pro Ser Ser Pro Gly Leu Thr Leu Gly Gly
           115           120           125
Leu Ala Val Ser Glu His Arg Leu Ser Asn Lys Leu Leu Ala Trp Ser
 130           135           140
Gly Val Leu Glu Trp Gln Glu Lys Arg Arg Pro Tyr Ser Asp Ser Thr
 145           150           155           160
Ala Lys Leu Lys Arg Thr Leu Pro Cys Gln Ala Tyr Val Asn Gln Gly
           165           170           175
Glu Asn Leu Glu Thr Asp Gln Trp Pro Gln Lys Leu Ile Met Gln Leu
           180           185           190
Ile Pro Gln Gln Leu Leu Thr Thr Leu Gly Pro Leu Phe Arg Asn Ser
           195           200           205
Gln Leu Ala Gln Phe His Phe Thr Asn Arg Asp Cys Asp Ser Leu Lys
 210           215           220
Gly Leu Cys Arg Ile Met Gly Asn Gly Phe Ala Gly Cys Met Leu Phe
 225           230           235           240
Pro His Ile Ser Pro Cys Glu Val Arg Val Leu Met Leu Leu Tyr Ser
           245           250           255
Ser Lys Lys Lys Ile Phe Met Gly Leu Ile Pro Tyr Asp Gln Ser Gly
           260           265           270
Phe Val Ser Ala Ile Arg Gln Val Ile Thr Thr Arg Lys Gln Ala Val
           275           280           285

```

Gly Pro Gly Gly Val Asn Ser Gly Pro Val Gln Ile Val Asn Asn Lys
 290 295 300
 Phe Leu Ala Trp Ser Gly Val Met Glu Trp Gln Glu Pro Arg Pro Glu
 305 310 315 320
 Pro Asn Ser Arg Ser Lys Arg Trp Leu Pro Ser His Val Tyr Val Asn
 325 330 335
 Gln Gly Glu Ile Leu Arg Thr Glu Gln Trp Pro Arg Lys Leu Tyr Met
 340 345 350
 Gln Leu Ile Pro Gln Gln Leu Leu Thr Thr Leu Val Pro Leu Phe Arg
 355 360 365
 Asn Ser Arg Leu Val Gln Phe His Phe Thr Lys Asp Leu Glu Thr Leu
 370 375 380
 Lys Ser Leu Cys Arg Ile Met Asp Asn Gly Phe Ala Gly Cys Val His
 385 390 395 400
 Phe Ser Tyr Lys Ala Ser Cys Glu Ile Arg Val Leu Met Leu Leu Tyr
 405 410 415
 Ser Ser Glu Lys Lys Ile Phe Ile Gly Leu Ile Pro His Asp Gln Gly
 420 425 430
 Asn Phe Val Asn Gly Ile Arg Arg Val Ile Ala Asn Gln Gln Gln Val
 435 440 445
 Leu Gln Arg Asn Leu Glu Gln Glu Gln Gln Arg Gly Met Gly Gly
 450 455 460 464

<210> 1253
 <211> 214
 <212> Amino acid
 <213> Homo sapiens

<400> 1253
 Gly Arg Pro Ala Leu Gly Arg Glu Ala Pro Pro Gln Ala Gly Leu Ser
 1 5 10 15
 Ser Thr Pro Pro Cys Ser Glu Thr Cys Thr Met Gly Pro His Ser
 20 25 30
 Ile Leu Arg Thr Val His Cys Arg Pro Thr Lys Thr Pro Pro Glu Pro
 35 40 45
 Ser Ala Glu Pro His Pro Leu Ser Leu Leu Thr Ser Ser Asn Thr Ser
 50 55 60
 Leu Ala Gly Thr Ser Leu Gly Arg Asp Leu Thr Pro Gly Gly Gly Lys
 65 70 75 80
 Pro Pro Ser Gly Gln Thr Pro Arg Asn Pro Glu Ser Pro Arg His Arg
 85 90 95
 Leu Gly Ser Pro Arg Gly Arg Arg Trp Leu Ala Ser Pro Thr Pro Thr
 100 105 110
 Gly Ser Gly Arg Ser Gly Pro Ala Ser Arg Gly Gln Arg Arg Leu Ser
 115 120 125
 Cys Ala Ala Gln Asp Pro Thr Ser Glu Gly Ala Ser Val Gly Ala Met
 130 135 140
 Glu Ala Gly Leu Gly Pro Pro Thr Ala Ala Pro Arg Gly Val Val Ser
 145 150 155 160
 Glu Ala Ala Glu Ser Leu Gly Gly Thr Leu Ser Trp Gly Ala Trp Gly
 165 170 175
 Arg Pro Pro Ala Gly Pro Ser Gly Leu Ala Gly Arg Arg Ser Arg Arg
 180 185 190
 Glu Ala Leu Arg Pro Asp Arg Lys Glu Ala Ser Val Met Met Ala Ala
 195 200 205
 Val Ser Ala Ile Gln Pro
 210 214

<210> 1254
 <211> 198
 <212>Amino acid
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(198)
 <223> X = any amino acid or stop code

<400> 1254
 Pro Gly Val Pro Thr His Gly Trp Pro Arg Ser Arg Val Leu Thr Arg
 1 5 10 15
 Val Arg Gly Ser Arg Gly Ser Gly Lys Met Ala Ala Ala Val Val Leu
 20 25 30
 Ala Ala Gly Leu Arg Ala Ala Arg Arg Ala Val Ala Ala Thr Gly Val
 35 40 45
 Arg Gly Gly Gln Val Arg Gly Ala Ala Gly Val Thr Asp Gly Asn Glu
 50 55 60
 Val Ala Lys Ala Gln Gln Ala Thr Pro Gly Gly Ala Ala Pro Thr Ile
 65 70 75 80
 Phe Ser Arg Ile Leu Asp Lys Ser Leu Pro Ala Asp Ile Leu Tyr Glu
 85 90 95
 Asp Gln Gln Cys Leu Val Phe Arg Asp Val Ala Pro Gln Ala Pro Val
 100 105 110
 His Phe Leu Val Ile Pro Lys Lys Pro Ile Pro Arg Ile Ser Gln Ala
 115 120 125
 Glu Glu Glu Asp Gln Gln Leu Thr Tyr Val Pro Pro Leu Ser Leu Xaa
 130 135 140
 Leu Leu Gly His Leu Leu Leu Val Ala Lys Gln Thr Ala Lys Ala Glu
 145 150 155 160
 Gly Leu Gly Asp Gly Tyr Arg Leu Val Ile Asn Asp Gly Lys Leu Gly
 165 170 175
 Ala Gln Ser Val Tyr His Leu His Ile His Val Leu Gly Gly Arg Gln
 180 185 190
 Leu Gln Trp Pro Pro Gly
 195 198

<210> 1255
 <211> 458
 <212>Amino acid
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(458)
 <223> X = any amino acid or stop code

<400> 1255
 Val Pro Asn Tyr Leu Pro Ser Val Ser Ser Ala Ile Gly Gly Glu Val
 1 5 10 15
 Pro Gln Arg Tyr Val Trp Arg Phe Cys Ile Gly Leu His Ser Ala Pro
 20 25 30

Arg Phe Leu Val Ala Phe Ala Tyr Trp Asn His Tyr Leu Ser Cys Thr
 35 40 45
 Ser Pro Cys Ser Cys Tyr Arg Pro Leu Cys Arg Leu Asn Phe Gly Leu
 50 55 60
 Asn Val Val Glu Asn Leu Ala Leu Leu Val Leu Thr Tyr Val Ser Ser
 65 70 75 80
 Ser Glu Asp Phe Thr Trp Val Pro Gly Xaa Gly Arg Ser Gly Glu Val
 85 90 95
 Phe Pro Glu Gly Thr Gly Leu Pro Leu Pro His Ser Asp Leu Pro Thr
 100 105 110
 Ser Trp Cys Gly His Ser Leu Gln Cys Gly Ser Gln Ser Ser Phe Pro
 115 120 125
 Pro Ala Ile His Glu Asn Ala Phe Ile Val Phe Ile Ala Ser Ser Leu
 130 135 140
 Gly His Met Leu Leu Thr Cys Ile Leu Trp Arg Leu Thr Lys Lys His
 145 150 155 160
 Thr Val Ser Gln Glu Asp Gly Leu Ser Leu Ala Gly Ala Pro Arg Gln
 165 170 175
 Pro Arg Arg Lys Ser Arg Thr Ser Val Leu Arg Ile Arg Val Met Val
 180 185 190
 Arg Trp Glu Leu Ser Ser Asn Gly Asn Pro Gly Arg Gly Val Leu Gly
 195 200 205
 Leu Gly Leu Gly Leu Gly Asn Lys Leu Arg Val Val Gly Gln Asn Leu
 210 215 220
 Gly Leu Xaa His Cys Val Trp Val Val Trp Glu Thr Gly Glu Xaa Lys
 225 230 235 240
 Arg Trp Arg Leu Gln Met Gly Ile Glu Xaa Gly Val Ala Ser Arg Arg
 245 250 255
 Gln Xaa Val Arg Asn Ser Val Arg Gly Leu Val Cys His Asn Ser Ser
 260 265 270
 Ala Pro Pro Met Tyr Met Gly Phe Ser Pro Thr Val Phe Gly Gly
 275 280 285
 Gly Val Gly Gly Xaa Leu His Val Thr Phe Ile Leu His Pro Pro Glu
 290 295 300
 Val Glu Ala Ala Gly Ile Pro Leu Leu Leu Gly Pro Ser Leu Pro Gln
 305 310 315 320
 Arg Gln Gly Arg Glu His Ile Val Val Ile Leu Ala Ala Pro Ala Cys
 325 330 335
 Ala Pro Phe His Asp Arg Xaa Trp Glu Pro Arg Glu Ile Arg Pro Ser
 340 345 350
 Pro Xaa Glu Leu Gly Leu Arg Gly Glu Pro Thr Leu Ser Tyr Pro Ala
 355 360 365
 Ser Cys Arg Val Ile Arg Gln Pro Ile Pro Xaa Asp Arg Lys Ser Tyr
 370 375 380
 Ser Trp Lys Gln Arg Leu Phe Ile Ile Asn Phe Ile Ser Phe Phe Ser
 385 390 395 400
 Ala Leu Ala Val Tyr Phe Arg His Asn Met Tyr Cys Glu Ala Gly Val
 405 410 415
 Tyr Thr Ile Phe Ala Ile Leu Glu Tyr Thr Val Val Leu Thr Asn Met
 420 425 430
 Ala Phe His Met Thr Ala Trp Trp Asp Phe Gly Asn Lys Glu Leu Leu
 435 440 445
 Ile Thr Ser Gln Pro Glu Glu Lys Arg Phe
 450 455 458

<210> 1256

<211> 83

<212> Amino acid

<213> Homo sapiens

<400> 1256

```

Ile Asp Leu Leu Glu Ile Arg Asn Gly Pro Arg Ser His Glu Ser Phe
 1           5           10           15
Gln Glu Met Asp Leu Asn Asp Asp Trp Lys Leu Ser Lys Asp Glu Val
           20           25           30
Lys Ala Tyr Leu Lys Lys Glu Phe Glu Lys His Gly Ala Val Val Asn
           35           40           45
Glu Ser His His Asp Ala Leu Val Glu Asp Ile Phe Asp Lys Glu Asp
           50           55           60
Glu Asp Lys Asp Gly Phe Ile Ser Ala Arg Glu Phe Thr Tyr Lys His
           65           70           75           80
Asp Glu Leu
           83

```

<210> 1257

<211> 203

<212>Amino acid

<213> Homo sapiens

<400> 1257

```

Pro Arg Val Arg Gly Arg Val Gly Lys Glu Gly Ala Ala Ala Lys Pro
 1           5           10           15
Arg Ser Leu Leu Arg Arg Phe Gln Leu Leu Ser Trp Ser Val Cys Gly
           20           25           30
Gly Asn Lys Asp Pro Trp Val Gln Glu Leu Met Ser Cys Leu Asp Leu
           35           40           45
Lys Glu Cys Gly His Ala Tyr Ser Gly Ile Val Ala His Gln Lys His
           50           55           60
Leu Leu Pro Thr Ser Pro Pro Ile Ser Gln Ala Ser Glu Gly Ala Ser
           65           70           75           80
Ser Asp Ile His Thr Pro Ala Gln Met Leu Leu Ser Thr Leu Gln Ser
           85           90           95
Thr Gln Arg Pro Thr Leu Pro Val Gly Ser Leu Ser Ser Asp Lys Glu
           100           105           110
Leu Thr Arg Pro Asn Glu Thr Thr Ile His Thr Ala Gly His Ser Leu
           115           120           125
Ala Ala Gly Pro Glu Ala Gly Glu Asn Gln Lys Gln Pro Glu Lys Asn
           130           135           140
Ala Gly Pro Thr Ala Arg Thr Ser Ala Thr Val Pro Val Leu Cys Leu
           145           150           155           160
Leu Ala Ile Ile Phe Ile Leu Thr Ala Ala Leu Ser Tyr Val Leu Cys
           165           170           175
Lys Arg Arg Arg Gly Gln Ser Pro Gln Ser Ser Pro Asp Leu Pro Val
           180           185           190
His Tyr Ile Pro Val Ala Pro Asp Ser Asn Thr
           195           200           203

```

<210> 1258

<211> 195

<212>Amino acid

<213> Homo sapiens

<400> 1258

```

Leu Ile Ile Ser Asn Phe Leu Lys Ala Lys Gln Lys Pro Gly Ser Thr
 1           5           10           15
Pro Asn Leu Gln Gln Lys Lys Ser Gln Ala Arg Leu Ala Pro Asp Ile
          20           25           30
Val Ser Ala Ser Gln Tyr Arg Lys Phe Asp Glu Phe Gln Thr Gly Ile
          35           40           45
Leu Ile Tyr Glu Leu Leu His Gln Pro Asn Pro Phe Glu Val Arg Ala
 50           55           60
Gln Leu Arg Glu Arg Asp Tyr Arg Gln Glu Asp Leu Pro Pro Leu Pro
 65           70           75           80
Ala Leu Ser Leu Tyr Ser Pro Gly Leu Gln Gln Leu Ala His Leu Leu
          85           90           95
Leu Glu Ala Asp Pro Ile Lys Arg Ile Arg Ile Gly Glu Ala Lys Arg
          100          105          110
Val Leu Gln Cys Leu Leu Trp Gly Pro Arg Arg Glu Leu Val Gln Gln
          115          120          125
Pro Gly Thr Ser Glu Glu Ala Leu Cys Gly Thr Leu His Asn Trp Ile
          130          135          140
Asp Met Lys Arg Ala Leu Met Met Met Lys Phe Ala Glu Lys Ala Val
145           150           155           160
Asp Arg Arg Arg Gly Val Glu Leu Glu Asp Trp Leu Cys Cys Gln Tyr
          165           170           175
Leu Ala Ser Ala Glu Pro Gly Ala Leu Leu Gln Ser Leu Lys Leu Leu
          180          185          190
Gln Leu Leu
          195

```

<210> 1259

<211> 672

<212>Amino acid

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(672)

<223> X = any amino acid or stop code

<400> 1259

```

Lys Arg Gly Leu Ile Val Val Met Ala His Glu Met Ile Gly Thr Gln
 1           5           10           15
Ile Val Thr Glu Arg Gly Val Ala Leu Leu Glu Ser Gly Thr Glu Lys
          20           25           30
Val Leu Leu Ile Asp Ser Arg Pro Phe Val Glu Tyr Asn Thr Ser His
          35           40           45
Ile Leu Glu Ala Ile Asn Ile Asn Cys Ser Lys Leu Met Lys Arg Arg
 50           55           60
Leu Gln Gln Asp Lys Val Leu Ile Thr Glu Leu Ile Gln His Ser Ala
 65           70           75           80
Lys His Lys Val Asp Ile Asp Cys Ser Gln Lys Val Val Val Tyr Asp
          85           90           95
Gln Ser Ser Gln Asp Val Ala Ser Leu Ser Ser Asp Cys Phe Leu Thr
          100          105          110
Val Leu Leu Gly Lys Leu Glu Lys Ser Phe Asn Ser Val His Leu Leu
          115          120          125
Ala Gly Gly Phe Ala Glu Phe Ser Arg Cys Phe Pro Gly Leu Cys Glu
          130          135          140
Gly Lys Ser Thr Leu Val Pro Thr Cys Ile Ser Gln Pro Cys Leu Pro
145           150           155           160
Val Ala Asn Ile Gly Pro Thr Arg Ile Leu Pro Asn Leu Tyr Leu Gly

```

765

<210> 1260
 <211> 260
 <212>Amino acid
 <213> Homo sapiens

<400> 1260
 Ala Ser Ser Ser Lys Arg Val Ser Arg Gln Lys Met Leu Gln Leu Trp
 1 5 10 15
 Lys Leu Val Leu Cys Gly Val Leu Thr Gly Thr Ser Glu Ser Leu
 20 25 30
 Leu Asp Asn Leu Gly Asn Asp Leu Ser Asn Val Val Asp Lys Leu Glu
 35 40 45
 Pro Val Leu His Glu Gly Leu Glu Thr Val Asp Asn Thr Leu Lys Gly
 50 55 60
 Ile Leu Glu Lys Leu Lys Val Asp Leu Gly Val Leu Gln Lys Ser Ser
 65 70 75 80
 Ala Trp Gln Leu Ala Lys Gln Lys Ala Gln Glu Ala Glu Lys Leu Leu
 85 90 95
 Asn Asn Val Ile Ser Lys Leu Leu Pro Thr Asn Thr Asp Ile Phe Gly
 100 105 110
 Leu Lys Ile Ser Asn Ser Leu Ile Leu Asp Val Lys Ala Glu Pro Ile
 115 120 125
 Asp Asp Gly Lys Gly Leu Asn Leu Ser Phe Pro Val Thr Ala Asn Val
 130 135 140
 Thr Glu Ala Gly Pro Ile Ile Asp Gln Ile Ile Asn Leu Arg Ala Ser
 145 150 155 160
 Leu Asp Leu Leu Thr Ala Val Thr Ile Glu Thr Asp Pro Gln Thr His
 165 170 175
 His Pro Val Ala Gly Leu Gly Glu Cys Ala Arg Asp Pro Thr Ser Ile
 180 185 190
 Ser Leu Cys Leu Leu Asp Lys His Ser Gln Ile Ile Asn Lys Phe Val
 195 200 205
 Asn Ser Val Ile Asn Thr Leu Lys Ser Thr Val Ser Ser Leu Leu Gln
 210 215 220
 Lys Glu Ile Cys Pro Leu Ile Arg Ile Phe Ile His Ser Leu Asp Val
 225 230 235 240
 Asn Val Ile Gln Gln Val Val Asp Asn Pro Gln His Lys Thr Gln Leu
 245 250 255
 Gln Thr Leu Ile
 260

<210> 1261
 <211> 278
 <212>Amino acid
 <213> Homo sapiens

<400> 1261
 Cys Ser Leu Arg Arg Pro Arg Ser Ala Ala Glu Pro Asp Ala Asp His
 1 5 10 15
 Val Pro Leu Leu Gly Leu Leu Arg Leu Gln Leu Arg Ala Ala Arg Gln
 20 25 30
 Pro Gly Ala Met Arg Pro Gln Gly Pro Ala Ala Ser Pro Gln Arg Leu

```

      35      40      45
Arg Gly Leu Leu Leu Leu Leu Leu Gln Leu Pro Ala Pro Ser Ser
  50      55      60
Ala Ser Glu Ile Pro Lys Gly Lys Gln Lys Ala Gln Leu Arg Gln Arg
  65      70      75      80
Glu Val Val Asp Leu Tyr Asn Gly Met Cys Leu Gln Gly Pro Ala Gly
      85      90      95
Val Pro Gly Arg Asp Gly Ser Pro Gly Ala Asn Gly Ile Pro Gly Thr
      100      105      110
Pro Gly Ile Pro Gly Arg Asp Gly Phe Lys Gly Glu Lys Gly Glu Cys
      115      120      125
Leu Arg Glu Ser Phe Glu Glu Ser Trp Thr Pro Asn Tyr Lys Gln Cys
      130      135      140
Ser Trp Ser Ser Leu Asn Tyr Gly Ile Asp Leu Gly Lys Ile Ala Glu
      145      150      155      160
Cys Thr Phe Thr Lys Met Arg Ser Asn Ser Ala Leu Arg Val Leu Phe
      165      170      175
Ser Gly Ser Leu Arg Leu Lys Cys Arg Asn Ala Cys Cys Gln Arg Trp
      180      185      190
Tyr Phe Thr Phe Asn Gly Ala Glu Cys Ser Gly Pro Leu Pro Ile Glu
      195      200      205
Ala Ile Ile Tyr Leu Asp Gln Gly Ser Pro Glu Met Asn Ser Thr Ile
      210      215      220
Asn Ile His Arg Thr Ser Val Glu Gly Leu Cys Glu Gly Ile Gly
      225      230      235      240
Ala Gly Leu Val Asp Val Ala Ile Trp Val Gly Thr Cys Ser Asp Tyr
      245      250      255
Pro Lys Gly Asp Ala Ser Thr Gly Trp Asn Ser Val Ser Arg Ile Ile
      260      265      270
Ile Glu Glu Leu Pro Lys
      275      278

```

<210> 1262
 <211> 362
 <212> Amino acid
 <213> Homo sapiens

```

      <400> 1262
Met His Ser Ala Met Leu Gly Thr Arg Val Asn Leu Ser Val Ser Asp
  1      5      10      15
Phe Trp Arg Val Met Met Arg Val Cys Trp Leu Val Arg Gln Asp Ser
      20      25      30
Arg His Gln Arg Ile Arg Leu Pro His Leu Glu Ala Val Val Ile Gly
      35      40      45
Arg Gly Pro Glu Thr Lys Ile Thr Asp Lys Lys Cys Ser Arg Gln Gln
      50      55      60
Val Gln Leu Lys Ala Glu Cys Asn Lys Gly Tyr Val Lys Val Lys Gln
      65      70      75      80
Val Gly Val Asn Pro Thr Ser Ile Asp Ser Val Val Ile Gly Lys Asp
      85      90      95
Gln Glu Val Lys Leu Gln Pro Gly Gln Val Leu His Met Val Asn Glu
      100      105      110
Leu Tyr Pro Tyr Ile Val Glu Phe Glu Glu Glu Ala Lys Asn Pro Gly
      115      120      125
Leu Glu Thr His Arg Lys Arg Lys Arg Ser Gly Asn Ser Asp Ser Ile
      130      135      140
Glu Arg Asp Ala Ala Gln Glu Ala Glu Ala Gly Thr Gly Leu Glu Pro
      145      150      155      160
Gly Ser Asn Ser Gly Gln Cys Ser Val Pro Leu Lys Lys Gly Lys Asp

```

```

                165                170                175
Ala Pro Ile Lys Lys Glu Ser Leu Gly His Trp Ser Gln Gly Leu Lys
                180                185                190
Ile Ser Met Gln Asp Pro Lys Met Gln Val Tyr Lys Asp Glu Gln Val
                195                200                205
Val Val Ile Lys Asp Lys Tyr Pro Lys Ala Arg Tyr His Trp Leu Val
                210                215                220
Leu Pro Trp Thr Ser Ile Ser Ser Leu Lys Ala Val Ala Arg Glu His
                225                230                235                240
Leu Glu Leu Leu Lys His Met His Thr Val Gly Glu Lys Val Ile Val
                245                250                255
Asp Phe Ala Gly Ser Ser Lys Leu Arg Phe Arg Leu Gly Tyr His Ala
                260                265                270
Ile Pro Ser Met Ser His Val His Leu His Val Ile Ser Gln Asp Phe
                275                280                285
Asp Ser Pro Cys Leu Lys Asn Lys Lys His Trp Asn Ser Phe Asn Thr
                290                295                300
Glu Tyr Phe Leu Glu Ser Gln Ala Val Ile Glu Met Val Gln Glu Ala
305                310                315                320
Gly Arg Val Thr Val Arg Asp Gly Met Pro Glu Leu Leu Lys Leu Pro
                325                330                335
Leu Arg Cys His Glu Cys Gln Gln Leu Leu Pro Ser Ile Pro Gln Leu
                340                345                350
Lys Glu His Leu Arg Lys His Trp Thr Gln
                355                360                362

```

<210> 1263

<211> 618

<212> Amino acid

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1) ... (618)

<223> X = any amino acid or stop code

<400> 1263

```

Asp Met Ser Asp Thr Ser Glu Ser Gly Ala Gly Leu Thr Arg Phe Gln
1          5          10          15
Ala Glu Ala Ser Glu Lys Asp Ser Ser Ser Met Met Gln Thr Leu Leu
20          25          30
Thr Val Thr Gln Asn Val Glu Val Pro Glu Thr Pro Lys Ala Ser Lys
35          40          45
Ala Leu Glu Val Ser Glu Asp Val Lys Val Ser Lys Ala Ser Gly Val
50          55          60
Ser Lys Ala Thr Glu Val Ser Lys Thr Pro Glu Ala Arg Glu Ala Pro
65          70          75          80
Ala Thr Gln Ala Ser Ser Thr Thr Gln Leu Thr Asp Thr Gln Val Leu
85          90          95
Ala Ala Glu Asn Lys Ser Leu Ala Ala Asp Thr Lys Lys Gln Asn Ala
100         105         110
Asp Pro Gln Ala Val Thr Met Pro Ala Thr Glu Thr Lys Lys Val Ser
115         120         125
His Val Ala Asp Thr Lys Val Asn Thr Lys Ala Gln Glu Thr Glu Ala
130         135         140
Ala Pro Ser Gln Ala Pro Ala Asp Glu Pro Glu Pro Glu Ser Ala Ala
145         150         155         160
Ala Gln Ser Gln Glu Asn Gln Asp Thr Arg Pro Lys Val Lys Ala Lys
165         170         175

```

Lys Ala Arg Lys Val Lys His Leu Asp Gly Glu Glu Asp Gly Ser Ser
 180 185 190
 Asp Gln Ser Gln Ala Ser Gly Thr Thr Gly Gly Arg Arg Val Ser Lys
 195 200 205
 Ala Leu Met Ala Ser Met Ala Arg Arg Ala Ser Arg Gly Pro Ile Ala
 210 215 220
 Phe Trp Ala Arg Arg Ala Ser Arg Thr Arg Leu Ala Cys Phe Gly Pro
 225 230 235 240
 Gly Glu Pro Leu Leu Ser Pro Trp Arg Ser Pro Lys Ala Arg Arg Gln
 245 250 255
 Arg Gly Phe Ala Val Arg Val Ala Lys Phe Gln Ser Ser Gln Glu Pro
 260 265 270
 Glu Ala Pro Pro Pro Trp Asp Val Ala Leu Leu Gln Gly Arg Ala Asn
 275 280 285
 Asp Leu Val Lys Tyr Leu Leu Ala Lys Asp Gln Thr Lys Ile Pro Ile
 290 295 300
 Lys Arg Ser Asp Met Leu Lys Asp Ile Ile Lys Glu Tyr Thr Asp Val
 305 310 315 320
 Tyr Pro Glu Ile Ile Glu Arg Ala Gly Tyr Ser Leu Glu Lys Val Phe
 325 330 335
 Gly Ile Gln Leu Lys Glu Ile Asp Lys Asn Asp His Leu Tyr Ile Leu
 340 345 350
 Leu Ser Thr Leu Glu Pro Thr Asp Ala Gly Ile Leu Gly Thr Thr Lys
 355 360 365
 Asp Ser Pro Lys Leu Gly Leu Leu Met Val Leu Leu Ser Ile Ile Phe
 370 375 380
 Met Asn Gly Asn Arg Ser Ser Glu Ala Val Ile Trp Glu Val Leu Arg
 385 390 395 400
 Arg Ser Leu Gly Leu Arg Leu Gly Ile His His Ser Leu Leu Gly Asp
 405 410 415
 Val Lys Lys Leu Ile Thr Asp Glu Val Lys Gln Lys Tyr Leu Asp
 420 425 430
 Tyr Ala Arg Val Pro His Ser Asn Ser Pro Glu Tyr Glu Phe Phe Trp
 435 440 445
 Gly Leu Arg Ser Tyr Tyr Glu Asp Gln Gln Arg Xaa Lys Ser Phe Lys
 450 455 460
 Phe Ala Cys Lys Val Gln Lys Lys Asp Pro Lys Glu Trp Ala Ala Gln
 465 470 475 480
 Ser Pro Pro Gly Lys Ala Arg Glu Arg Met Glu Ala Asp Leu Lys Ala
 485 490 495
 Ala Ser Xaa Gly Ser Pro Trp Lys Pro Arg Leu Arg Ala Glu Ile Lys
 500 505 510
 Ala Arg Met Gly Ile Gly Leu Gly Ser Glu Asn Ala Ala Gly Pro Cys
 515 520 525
 Asn Trp Asp Glu Ala Asp Ile Gly Pro Trp Ala Lys Ala Arg Ile Gln
 530 535 540
 Ala Gly Ala Glu Ala Lys Ala Lys Ala Gln Glu Ser Gly Ser Ala Ser
 545 550 555 560
 Thr Gly Ala Ser Thr Ser Thr Asn Asn Ser Ala Ser Ala Ser Ala Ser
 565 570 575
 Thr Ser Gly Gly Phe Ser Ala Gly Ala Ser Leu Thr Ala Thr Leu Thr
 580 585 590
 Phe Gly Leu Phe Ala Gly Leu Gly Gly Ala Gly Ala Ser Thr Ser Gly
 595 600 605
 Ser Ser Gly Ala Cys Gly Phe Ser Tyr Lys
 610 615 618

<210> 1264

<211> 464

<212> Amino acid

<213> Homo sapiens

<220>

<221> misc_feature
 <222> (1)...(464)
 <223> X = any amino acid or stop code

<400> 1264

Ala	Arg	Pro	Pro	Val	Cys	Thr	Gly	Ser	Thr	Met	Ser	Leu	Thr	Val	Val
1				5					10					15	
Ser	Met	Ala	Cys	Val	Gly	Phe	Phe	Leu	Leu	Gln	Gly	Ala	Trp	Pro	Leu
		20						25					30		
Met	Gly	Gly	Gln	Asp	Lys	Pro	Phe	Leu	Ser	Ala	Arg	Pro	Ser	Thr	Val
	35						40					45			
Val	Pro	Arg	Gly	Gly	His	Val	Ala	Leu	Gln	Cys	His	Tyr	Arg	Arg	Gly
	50				55						60				
Phe	Asn	Asn	Phe	Met	Leu	Tyr	Lys	Glu	Asp	Arg	Ser	His	Val	Pro	Ile
65				70					75						80
Phe	His	Gly	Arg	Ile	Phe	Gln	Glu	Ser	Phe	Ile	Met	Gly	Pro	Val	Thr
				85					90					95	
Pro	Ala	His	Ala	Gly	Thr	Tyr	Arg	Cys	Arg	Gly	Ser	Arg	Pro	His	Ser
			100					105					110		
Leu	Thr	Gly	Trp	Ser	Ala	Pro	Ser	Asn	Pro	Leu	Val	Ile	Met	Val	Thr
	115						120					125			
Gly	Asn	His	Arg	Lys	Pro	Ser	Leu	Leu	Ala	His	Pro	Gly	Pro	Leu	Leu
	130					135					140				
Lys	Ser	Gly	Glu	Thr	Val	Ile	Leu	Gln	Cys	Trp	Ser	Asp	Ile	Met	Phe
145					150				155						160
Glu	His	Phe	Phe	Leu	His	Lys	Glu	Gly	Ile	Ser	Lys	Asp	Pro	Ser	Arg
				165					170					175	
Leu	Val	Gly	Gln	Ile	His	Asp	Gly	Val	Ser	Lys	Ala	Asn	Phe	Ser	Ile
			180					185					190		
Gly	Pro	Met	Met	Leu	Ala	Leu	Ala	Gly	Thr	Tyr	Arg	Cys	Tyr	Gly	Ser
	195						200					205			
Val	Thr	His	Thr	Pro	Tyr	Gln	Leu	Ser	Ala	Pro	Ser	Asp	Pro	Leu	Asp
	210					215					220				
Ile	Val	Val	Thr	Gly	Pro	Tyr	Glu	Lys	Pro	Ser	Leu	Ser	Ala	Gln	Pro
225					230					235					240
Gly	Pro	Lys	Val	Gln	Ala	Gly	Glu	Ser	Val	Thr	Leu	Ser	Cys	Ser	Ser
				245					250					255	
Arg	Ser	Ser	Tyr	Asp	Met	Tyr	His	Leu	Ser	Arg	Glu	Gly	Gly	Ala	His
			260					265						270	
Glu	Arg	Arg	Leu	Pro	Ala	Val	Arg	Lys	Val	Asn	Arg	Thr	Phe	Gln	Ala
	275						280					285			
Asp	Phe	Pro	Leu	Gly	Pro	Ala	Thr	His	Gly	Gly	Thr	Tyr	Arg	Cys	Phe
	290					295					300				
Gly	Ser	Phe	Arg	His	Ser	Pro	Tyr	Glu	Trp	Ser	Asp	Pro	Ser	Asp	Pro
305					310					315					320
Leu	Leu	Val	Ser	Val	Thr	Gly	Asn	Pro	Ser	Ser	Ser	Trp	Pro	Ser	Pro
				325					330					335	
Thr	Glu	Pro	Ser	Ser	Lys	Ser	Gly	Asn	Leu	Arg	His	Leu	His	Ile	Leu
			340					345					350		
Ile	Gly	Thr	Ser	Val	Val	Lys	Ile	Pro	Phe	Thr	Ile	Leu	Leu	Phe	Phe
	355						360					365			
Leu	Leu	His	Arg	Trp	Cys	Ser	Asn	Lys	Lys	Asn	Ala	Ala	Val	Met	Asp
	370					375					380				
Gln	Glu	Pro	Ala	Gly	Asn	Arg	Val	Asn	Ser	Glu	Asp	Ser	Asp	Glu	Gln
385					390					395					400
Asp	His	Gln	Glu	Val	Ser	Tyr	Pro	Xaa	Leu	Glu	His	Cys	Val	Phe	Thr
				405					410					415	
Gln	Arg	Lys	Ile	Thr	Arg	Pro	Ser	Gln	Arg	Pro	Lys	Thr	Pro	Pro	Thr
			420					425					430		
Asp	Thr	Ser	Met	Tyr	Ile	Glu	Leu	Pro	Asn	Ala	Glu	Pro	Arg	Ser	Lys

	435		440		445	
Val	Val Phe Cys Pro Arg	Ala Pro Gln Ser Gly	Leu Glu Gly Ile Phe			
450		455	460	464		

<210> 1265
 <211> 1879
 <212> Amino acid
 <213> Homo sapiens

 <220>
 <221> misc_feature
 <222> (1)...(1879)
 <223> X = any amino acid or stop code

<400> 1265
 Leu His Asn Leu Arg Glu Arg Tyr Phe Ser Gly Leu Ile Tyr Thr Tyr
 1 . 5 10 15
 Ser Gly Leu Phe Cys Val Val Val Asn Pro Tyr Lys His Leu Pro Ile
 20 25 30
 Tyr Ser Glu Lys Ile Val Asp Met Tyr Lys Gly Lys Lys Arg His Glu
 35 40 45
 Met Pro Pro His Ile Tyr Ala Ile Ala Asp Thr Ala Tyr Arg Ser Met
 50 55 60
 Leu Gln Asp Arg Glu Asp Gln Ser Ile Leu Cys Thr Gly Glu Ser Gly
 65 70 75 80
 Ala Gly Lys Thr Glu Asn Thr Lys Lys Val Ile Gln Tyr Leu Ala Val
 85 90 95
 Val Ala Ser Ser His Lys Gly Lys Lys Asp Thr Ser Ile Thr Gly Glu
 100 105 110
 Leu Glu Lys Gln Leu Leu Gln Ala Asn Pro Ile Leu Glu Ala Phe Gly
 115 120 125
 Asn Ala Lys Thr Val Lys Asn Asp Asn Ser Ser Arg Phe Gly Lys Phe
 130 135 140
 Ile Arg Ile Asn Phe Asp Val Thr Gly Tyr Ile Val Gly Ala Asn Ile
 145 150 155 160
 Glu Thr Tyr Leu Leu Glu Lys Ser Arg Ala Ile Arg Gln Ala Arg Asp
 165 170 175
 Glu Arg Thr Phe His Ile Phe Tyr Tyr Met Ile Ala Gly Ala Lys Glu
 180 185 190
 Lys Met Arg Ser Asp Leu Leu Leu Glu Gly Phe Asn Asn Tyr Thr Phe
 195 200 205
 Leu Ser Asn Gly Phe Val Pro Ile Pro Ala Ala Gln Asp Asp Glu Met
 210 215 220
 Phe Gln Glu Thr Val Glu Ala Met Ala Ile Met Gly Phe Ser Glu Glu
 225 230 235 240
 Glu Gln Leu Ser Ile Leu Lys Val Val Ser Ser Val Leu Gln Leu Gly
 245 250 255
 Asn Ile Val Phe Lys Lys Glu Arg Asn Thr Asp Gln Ala Ser Met Pro
 260 265 270
 Asp Asn Thr Ala Ala Gln Lys Val Cys His Leu Met Gly Ile Asn Val
 275 280 285
 Thr Asp Phe Thr Arg Ser Ile Leu Thr Pro Arg Ile Lys Val Gly Arg
 290 295 300
 Asp Val Val Gln Lys Ala Gln Thr Lys Glu Gln Ala Asp Phe Ala Val
 305 310 315 320
 Glu Ala Leu Ala Lys Ala Thr Tyr Glu Arg Leu Phe Arg Trp Ile Leu
 325 330 335

Thr	Arg	Val	Asn	Lys	Ala	Leu	Asp	Lys	Thr	His	Arg	Gln	Gly	Ala	Ser	340	345	350
Phe	Leu	Gly	Ile	Leu	Asp	Ile	Ala	Gly	Phe	Glu	Ile	Phe	Glu	Val	Asn	355	360	365
Ser	Phe	Glu	Gln	Leu	Cys	Ile	Asn	Tyr	Thr	Asn	Glu	Lys	Leu	Gln	Gln	370	375	380
Leu	Phe	Asn	His	Thr	Met	Phe	Ile	Leu	Glu	Gln	Glu	Glu	Tyr	Gln	Arg	385	390	395
Glu	Gly	Ile	Glu	Trp	Asn	Phe	Ile	Asp	Phe	Gly	Leu	Asp	Leu	Gln	Pro	405	410	415
Cys	Ile	Glu	Leu	Ile	Glu	Arg	Pro	Asn	Asn	Pro	Pro	Gly	Val	Leu	Ala	420	425	430
Leu	Leu	Asp	Glu	Glu	Cys	Trp	Phe	Pro	Lys	Ala	Thr	Asp	Lys	Ser	Phe	435	440	445
Val	Glu	Lys	Leu	Cys	Thr	Glu	Gln	Gly	Ser	His	Pro	Lys	Phe	Gln	Lys	450	455	460
Pro	Lys	Gln	Leu	Lys	Asp	Lys	Thr	Glu	Phe	Ser	Ile	Ile	His	Tyr	Ala	465	470	475
Gly	Lys	Val	Asp	Tyr	Asn	Ala	Ser	Ala	Trp	Leu	Thr	Lys	Asn	Met	Asp	485	490	495
Pro	Leu	Asn	Asp	Asn	Val	Thr	Ser	Leu	Leu	Asn	Ala	Ser	Ser	Asp	Lys	500	505	510
Phe	Val	Ala	Asp	Leu	Trp	Lys	Asp	Val	Asp	Arg	Ile	Val	Gly	Leu	Asp	515	520	525
Gln	Met	Ala	Lys	Met	Thr	Glu	Ser	Ser	Leu	Pro	Ser	Ala	Ser	Lys	Thr	530	535	540
Lys	Lys	Gly	Met	Phe	Arg	Thr	Val	Gly	Gln	Leu	Tyr	Lys	Glu	Gln	Leu	545	550	555
Gly	Lys	Leu	Met	Thr	Thr	Leu	Arg	Asn	Thr	Thr	Pro	Asn	Phe	Val	Arg	565	570	575
Cys	Ile	Ile	Pro	Asn	His	Glu	Lys	Arg	Ser	Gly	Lys	Leu	Asp	Ala	Phe	580	585	590
Leu	Val	Leu	Glu	Gln	Leu	Arg	Cys	Asn	Gly	Val	Leu	Glu	Gly	Ile	Arg	595	600	605
Ile	Cys	Arg	Gln	Gly	Phe	Pro	Asn	Arg	Ile	Val	Phe	Gln	Glu	Phe	Arg	610	615	620
Gln	Arg	Tyr	Glu	Ile	Leu	Ala	Ala	Asn	Ala	Ile	Pro	Lys	Gly	Phe	Met	625	630	635
Asp	Gly	Lys	Gln	Ala	Cys	Ile	Leu	Met	Ile	Lys	Ala	Leu	Glu	Leu	Asp	645	650	655
Pro	Asn	Leu	Tyr	Arg	Ile	Gly	Gln	Ser	Lys	Ile	Phe	Phe	Arg	Thr	Gly	660	665	670
Val	Leu	Ala	His	Leu	Glu	Glu	Glu	Arg	Asp	Leu	Lys	Ile	Thr	Asp	Val	675	680	685
Ile	Met	Ala	Phe	Gln	Ala	Met	Cys	Arg	Gly	Tyr	Leu	Ala	Arg	Lys	Ala	690	695	700
Phe	Ala	Lys	Arg	Gln	Gln	Leu	Thr	Ala	Met	Lys	Val	Ile	Gln	Arg		705	710	715
Asn	Cys	Ala	Ala	Tyr	Ile	Lys	Leu	Arg	Asn	Trp	Gln	Trp	Cys	Arg	Leu	725	730	735
Phe	Thr	Lys	Val	Xaa	Pro	Leu	Leu	Gln	Val	Thr	Arg	Gln	Glu	Xaa	Glu	740	745	750
Met	Gln	Ala	Lys	Glu	Asp	Glu	Leu	Gln	Lys	Thr	Lys	Glu	Arg	Gln	Gln	755	760	765
Lys	Ala	Glu	Asn	Glu	Leu	Lys	Glu	Leu	Glu	Gln	Lys	His	Ser	Gln	Leu	770	775	780
Thr	Glu	Glu	Lys	Asn	Leu	Leu	Gln	Glu	Gln	Leu	Gln	Ala	Glu	Thr	Glu	785	790	795
Leu	Tyr	Ala	Glu	Ala	Glu	Glu	Met	Arg	Val	Arg	Leu	Ala	Ala	Lys	Lys	805	810	815
Gln	Glu	Leu	Glu	Glu	Ile	Leu	His	Glu	Met	Glu	Ala	Arg	Leu	Glu	Glu	820	825	830
Glu	Glu	Asp	Arg	Gly	Gln	Gln	Leu	Gln	Ala	Glu	Arg	Lys	Lys	Met	Ala	835	840	845

Gln Gln Met Leu Asp Leu Glu Glu Gln Leu Glu Glu Glu Glu Ala Ala
 850 855 860
 Arg Gln Lys Leu Gln Leu Glu Lys Val Thr Ala Glu Ala Lys Ile Lys
 865 870 875 880
 Lys Leu Glu Asp Glu Ile Leu Val Met Asp Asp Gln Asn Asn Lys Leu
 885 890 895
 Ser Lys Glu Arg Lys Leu Leu Glu Glu Arg Ile Ser Asp Leu Thr Thr
 900 905 910
 Asn Leu Ala Glu Glu Glu Glu Lys Ala Lys Asn Leu Thr Lys Leu Lys
 915 920 925
 Asn Lys His Glu Ser Met Ile Ser Glu Leu Glu Val Arg Leu Lys Lys
 930 935 940
 Glu Glu Lys Ser Arg Gln Glu Leu Glu Lys Leu Lys Arg Lys Leu Glu
 945 950 955 960
 Gly Asp Ala Ser Asp Phe His Glu Gln Ile Ala Asp Leu Gln Ala Gln
 965 970 975
 Ile Ala Glu Leu Lys Met Gln Leu Ala Lys Lys Glu Glu Glu Leu Gln
 980 985 990
 Ala Ala Leu Ala Arg Leu Asp Asp Glu Ile Ala Gln Lys Asn Asn Ala
 995 1000 1005
 Leu Lys Lys Ile Arg Glu Leu Glu Gly His Ile Ser Asp Leu Gln Glu
 1010 1015 1020
 Asp Leu Asp Ser Glu Arg Ala Ala Arg Asn Lys Ala Glu Lys Gln Lys
 1025 1030 1035 1040
 Arg Asp Leu Gly Glu Glu Leu Glu Ala Leu Lys Thr Glu Leu Glu Asp
 1045 1050 1055
 Thr Leu Asp Ser Thr Ala Thr Gln Gln Glu Leu Arg Ala Lys Arg Glu
 1060 1065 1070
 Gln Glu Val Thr Val Leu Lys Arg Ala Leu Asn Glu Glu Thr Arg Ser
 1075 1080 1085
 His Glu Ala Gln Val Gln Glu Met Arg Gln Lys His Ala Gln Ala Val
 1090 1095 1100
 Gln Ser Leu Thr Glu Gln Leu Glu Gln Xaa Lys Arg Ala Lys Ala Asn
 1105 1110 1115 1120
 Leu Asp Lys Asn Lys Gln Thr Leu Glu Lys Glu Asn Thr Asp Leu Ala
 1125 1130 1135
 Gly Glu Leu Arg Val Leu Gly Gln Ala Lys Gln Glu Val Glu His Arg
 1140 1145 1150
 Met Lys Lys Leu Gln Ala Gln Val Gln Glu Leu Gln Ser Lys Cys Ser
 1155 1160 1165
 Asp Gly Glu Arg Ala Arg Ala Glu Leu Asn Asp Lys Val His Lys Leu
 1170 1175 1180
 Gln Asn Glu Val Glu Ser Val Thr Gly Met Leu Asn Glu Ala Glu Gly
 1185 1190 1195 1200
 Lys Ala Ile Lys Leu Ala Lys Asp Val Ala Ser Leu Ser Ser Gln Leu
 1205 1210 1215
 Gln Asp Thr Gln Glu Leu Leu Gln Glu Ser Arg Gln Lys Leu Asn
 1220 1225 1230
 Val Ser Thr Ser Leu Arg Gln Leu Glu Glu Glu Arg Asn Ser Leu Gln
 1235 1240 1245
 Asp Gln Leu Asp Glu Glu Met Glu Ala Lys Gln Asn Leu Glu Arg His
 1250 1255 1260
 Ile Ser Thr Leu Asn Ile Gln Leu Ser Asp Ser Lys Lys Lys Leu Gln
 1265 1270 1275 1280
 Asp Phe Ala Ser Thr Val Glu Ala Leu Glu Glu Gly Lys Lys Arg Phe
 1285 1290 1295
 Gln Lys Glu Ile Glu Asn Leu Thr Gln Gln Tyr Glu Glu Lys Ala Ala
 1300 1305 1310
 Ala Tyr Asp Lys Leu Glu Lys Thr Lys Asn Arg Leu Gln Gln Glu Leu
 1315 1320 1325
 Asp Asp Leu Val Val Asp Leu Asp Asn Gln Arg Gln Leu Val Ser Asn
 1330 1335 1340
 Leu Glu Lys Lys Gln Arg Lys Phe Asp Gln Leu Leu Ala Glu Glu Lys
 1345 1350 1355 1360

Asn Ile Ser Ser Lys Tyr Ala Asp Glu Arg Asp Arg Val Glu Ala Glu
 1365 1370 1375
 Ala Arg Glu Lys Glu Thr Lys Ala Leu Ser Leu Ala Arg Ala Leu Glu
 1380 1385 1390
 Glu Ala Leu Glu Ala Lys Glu Glu Leu Glu Arg Thr Asn Lys Met Leu
 1395 1400 1405
 Lys Ala Glu Met Gly Arg Pro Gly Ser Ala Ser Lys Asp Asp Val Gly
 1410 1415 1420
 Gln Glu Leu Ser His Asp Leu Glu Lys Ser Lys Arg Ala Leu Gly Asp
 1425 1430 1435 1440
 Pro Arg Leu Glu Glu Met Lys Thr Gln Leu Glu Glu Leu Gly Arg Thr
 1445 1450 1455
 Glu Leu Ala Ser Pro Arg Arg Asp Ala Lys Leu Arg Leu Glu Val Asn
 1460 1465 1470
 Met Gln Ala Pro Ser Arg Ala Ser Phe Glu Arg Asp Leu Gln Ala Arg
 1475 1480 1485
 Thr Glu Gln Asn Glu Glu Ser Arg Arg His Leu Gln Arg Gln Leu His
 1490 1495 1500
 Glu Tyr Glu Thr Glu Leu Glu Asp Glu Arg Lys Gln Arg Ala Leu Ala
 1505 1510 1515 1520
 Ala Ala Ala Lys Ile Lys Leu Gly Trp Asp Pro Val Arg Thr Leu Asp
 1525 1530 1535
 Leu Xaa Ala Asp Ser Ala Ile Lys Gly Arg Gly Gly Lys Ala Ile Lys
 1540 1545 1550
 Gln Leu Arg Lys Leu Gln Ala Gln Met Lys Asp Phe Gln Arg Glu Leu
 1555 1560 1565
 Glu Asp Ala Arg Ala Ser Arg Asp Glu Ile Phe Ala Thr Ala Lys Glu
 1570 1575 1580
 Asn Glu Lys Lys Ala Lys Ser Leu Glu Ala Asp Leu Met Gln Leu Gln
 1585 1590 1595 1600
 Glu Asp Leu Ala Ala Ala Glu Glu Gly Arg Lys Gln Ala Asp Leu Glu
 1605 1610 1615
 Lys Glu Glu Leu Ala Glu Glu Leu Ala Ser Ser Leu Ser Gly Arg Asn
 1620 1625 1630
 Ala Leu Gln Asp Glu Lys Arg Arg Leu Glu Ala Arg Ile Ala Gln Leu
 1635 1640 1645
 Glu Glu Glu Leu Glu Glu Glu Gln Gly Asn Met Glu Ala Met Ser Asp
 1650 1655 1660
 Arg Val Arg Lys Ala Thr Gln Gln Ala Glu Gln Leu Ser Asn Glu Leu
 1665 1670 1675 1680
 Ala Thr Glu Arg Ser Thr Ala Gln Lys Asn Glu Ser Ala Arg Gln Gln
 1685 1690 1695
 Leu Glu Arg Gln Asn Lys Glu Leu Arg Ser Lys Leu His Glu Met Glu
 1700 1705 1710
 Gly Ala Val Lys Ser Lys Phe Lys Ser Thr Ile Ala Ala Leu Glu Ala
 1715 1720 1725
 Lys Ile Ala Gln Leu Glu Glu Gln Val Glu Gln Glu Ala Arg Glu Lys
 1730 1735 1740
 Gln Ala Ala Thr Lys Ser Leu Lys Gln Lys Asp Lys Lys Leu Lys Glu
 1745 1750 1755 1760
 Ile Leu Leu Gln Val Glu Asp Glu Arg Lys Met Ala Glu Gln Tyr Lys
 1765 1770 1775
 Glu Gln Ala Glu Lys Gly Asn Ala Arg Val Lys Gln Leu Lys Arg Gln
 1780 1785 1790
 Leu Glu Glu Ala Glu Glu Glu Ser Gln Arg Ile Asn Ala Asn Arg Arg
 1795 1800 1805
 Lys Leu Gln Arg Glu Leu Asp Glu Ala Thr Glu Ser Asn Glu Ala Met
 1810 1815 1820
 Gly Arg Glu Val Asn Ala Leu Lys Ser Lys Leu Arg Arg Gly Asn Glu
 1825 1830 1835 1840
 Thr Ser Phe Val Pro Ser Arg Arg Ser Gly Gly Arg Arg Val Ile Glu
 1845 1850 1855
 Asn Ala Asp Gly Ser Glu Glu Glu Thr Asp Thr Arg Asp Ala Asp Phe
 1860 1865 1870

Asn Gly Thr Lys Ala Ser Glu
1875 1879

<210> 1266
<211> 257
<212>Amino acid
<213> Homo sapiens

<400> 1266
Lys Leu His Phe Ala Lys Ser Leu Asn Ser Glu Leu Ser Cys Ser Thr
1 5 10 15
Arg Glu Ala Met Gln Asp Glu Asp Gly Tyr Ile Thr Leu Asn Ile Lys
20 25 30
Thr Arg Lys Pro Ala Leu Val Ser Val Gly Pro Ala Ser Ser Ser Trp
35 40 45
Trp Arg Val Met Ala Leu Ile Leu Leu Ile Leu Cys Val Gly Met Val
50 55 60
Val Gly Leu Val Ala Leu Gly Ile Trp Ser Val Met Gln Arg Asn Tyr
65 70 75 80
Leu Gln Asp Glu Asn Glu Asn Arg Thr Gly Thr Leu Gln Gln Leu Ala
85 90 95
Lys Arg Phe Cys Gln Tyr Val Val Lys Gln Ser Glu Leu Lys Gly Thr
100 105 110
Phe Lys Gly His Lys Cys Ser Pro Cys Asp Thr Asn Trp Arg Tyr Tyr
115 120 125
Gly Asp Ser Cys Tyr Gly Phe Phe Arg His Asn Leu Thr Trp Glu Glu
130 135 140
Ser Lys Gln Tyr Cys Thr Asp Met Asn Ala Thr Leu Leu Lys Ile Asp
145 150 155 160
Asn Arg Asn Ile Val Glu Tyr Ile Lys Ala Arg Thr His Leu Ile Arg
165 170 175
Trp Val Gly Leu Ser Arg Gln Lys Ser Asn Glu Val Trp Lys Trp Glu
180 185 190
Asp Gly Ser Val Ile Ser Glu Asn Met Phe Glu Phe Leu Glu Asp Gly
195 200 205
Lys Gly Asn Met Asn Cys Ala Tyr Phe His Asn Gly Lys Met His Pro
210 215 220
Thr Phe Cys Glu Asn Lys His Tyr Leu Met Cys Glu Arg Lys Ala Gly
225 230 235 240
His Asp Pro Arg Trp Thr Gln Leu Pro Leu Met Pro Lys Arg Trp Thr
245 250 255
Gly
257

<210> 1267
<211> 208
<212>Amino acid
<213> Homo sapiens

<400> 1267
Asn Gln Gly Leu Arg Asp Val Gly Leu Cys Arg Thr Cys Leu Val Asn
1 5 10 15
Lys Ile Phe Ala Ser Ser Ile Leu Gly Lys Ser His His His Ser Leu
20 25 30

```

Val Ser Ile Asn Gln Gly His Asn Ala Pro Trp Lys Ala Ala Gly Ser
      35              40              45
Leu Pro Leu Lys Ala Ala Tyr Cys Gln Gly Phe Ser Pro Cys Asp Cys
      50              55              60
Leu Lys Tyr Gly Ser Trp Asp Glu Lys Asp Leu Met Val Pro Gln Pro
      65              70              75              80
Asp Thr His Lys Gly Ser Val Leu Arg Trp Ile Ser Lys Arg Gly Lys
      85              90              95
Pro Leu Ala Val Glu Met Glu Glu Gly His Cys Leu Cys Leu Pro Leu
      100             105             110
Gly Thr Glu Cys Leu Gly Val Lys Pro Ile Val His Leu Phe Asn Ser
      115             120             125
Glu Met Gly Glu Lys Arg Pro Val Ala Gly Ala Arg His Val Gly Ser
      130             135             140
Ser Ala Ala Leu Leu Phe Phe Thr Pro Leu Arg Cys Leu Gly Gly Glu
      145             150             155             160
Lys His Lys Ser Gly Leu Arg Ala Arg Pro Gly Ile Val Pro Ser Leu
      165             170             175
Glu Leu Asn Tyr Asp Ile Asp Ser Phe Ala His Met Phe Phe Ser Val
      180             185             190
Asp Leu Leu Leu Ile Ile Thr Leu Leu Ser Tyr Tyr Ile Pro Phe Cys
      195             200             205             208

```

<210> 1268

<211> 158

<212>Amino acid

<213> Homo sapiens

<400> 1268

```

Met Trp Trp Arg Leu Ala Pro Thr Gln Ala Ile Trp Arg Ala Ala Gly
  1              5              10              15
Cys Cys Met Arg Phe Ser Arg Arg Arg Ser Thr Cys Cys Cys Leu Ala
      20              25              30
Ser Cys Ile Phe Leu Leu Tyr Lys Ile Val Arg Gly Asp Gln Pro Ala
      35              40              45
Ala Lys Arg Arg Gln Arg Arg Arg Ala Ala Pro Ser Ala Pro Pro
      50              55              60
Gln Ala Ala Arg Leu His Pro Pro Pro Lys Leu Arg Arg Phe Asp Gly
      65              70              75              80
Val Gln Asp Pro Ala Pro Tyr Ser Trp Ala Ile Asn Gly Lys Val Phe
      85              90              95
Asp Val Thr Gln Arg Pro Ala Asn Phe Leu Arg Gly Pro Arg Gly Pro
      100             105             110
Glu Thr Leu Ser Asp Trp Glu Ser Gln Phe Thr Phe Lys Tyr His His
      115             120             125
Val Gly Lys Leu Leu Lys Glu Gly Glu Glu Pro Thr Val Tyr Ser Asp
      130             135             140
Glu Glu Glu Pro Lys Asp Glu Ser Ala Arg Lys Asn Asp *
      145             150             155             157

```

<210> 1269

<211> 178

<212>Amino acid

<213> Homo sapiens

<400> 1269

Gly Pro Arg Met Ala Lys Phe Leu Ser Gln Asp Gln Ile Asn Glu Tyr
 1 5 10 15
 Lys Glu Cys Phe Ser Leu Tyr Asp Lys Gln Gln Arg Gly Lys Ile Lys
 20 25 30
 Ala Thr Asp Leu Met Val Ala Met Arg Cys Leu Gly Ala Ser Pro Thr
 35 40 45
 Pro Gly Glu Val Gln Arg His Leu Gln Thr His Gly Ile Asp Gly Asn
 50 55 60
 Gly Glu Leu Asp Phe Ser Thr Phe Leu Thr Ile Met His Met Gln Ile
 65 70 75 80
 Lys Gln Glu Asp Pro Lys Lys Glu Ile Leu Leu Ala Met Leu Met Val
 85 90 95
 Asp Lys Glu Lys Lys Gly Tyr Val Met Ala Ser Asp Leu Arg Ser Lys
 100 105 110
 Leu Thr Ser Leu Gly Glu Lys Leu Thr His Lys Glu Val Asp Asp Leu
 115 120 125
 Phe Arg Glu Ala Asp Ile Glu Pro Asn Gly Lys Val Lys Tyr Asp Glu
 130 135 140
 Phe Ile His Lys Ile Thr Leu Leu Pro Gly Arg Asp Leu Leu Lys Glu
 145 150 155 160
 Glu Asn Gly Arg Ala Ser Pro Gly Pro Glu Asn Leu Glu Gln Leu Ile
 165 170 175
 Phe Leu
 178

<210> 1270

<211> 457

<212> Amino acid

<213> Homo sapiens

<400> 1270

Ala Asp Pro His Thr Thr Val Ile Arg Phe Phe Pro Ala Ala Ser Ala
 1 5 10 15
 Thr Lys Arg Val Leu Pro Pro Val Leu Arg Val Ser Ser Pro Arg Thr
 20 25 30
 Trp Asn Pro Asn Val Pro Glu Ser Pro Arg Ile Pro Ala Pro Arg Leu
 35 40 45
 Pro Lys Arg Met Ser Gly Ala Pro Thr Ala Gly Ala Ala Leu Met Leu
 50 55 60
 Cys Ala Ala Thr Ala Val Leu Leu Ser Ala Gln Gly Gly Pro Val Gln
 65 70 75 80
 Ser Lys Ser Pro Arg Phe Ala Ser Trp Asp Glu Met Asn Val Leu Ala
 85 90 95
 His Gly Leu Leu Gln Leu Gly Gln Gly Leu Arg Glu His Ala Glu Arg
 100 105 110
 Thr Arg Ser Gln Leu Ser Ala Leu Glu Arg Arg Leu Ser Ala Cys Gly
 115 120 125
 Ser Ala Cys Gln Gly Thr Glu Gly Ser Thr Asp Leu Pro Leu Ala Pro
 130 135 140
 Glu Ser Arg Val Asp Pro Glu Val Leu His Ser Leu Gln Thr Gln Leu
 145 150 155 160
 Lys Ala Gln Asn Ser Arg Ile Gln Gln Leu Phe His Lys Val Ala Gln
 165 170 175
 Gln Gln Arg His Leu Glu Lys Gln His Leu Arg Ile Gln His Leu Gln
 180 185 190

Ser Gln Phe Gly Leu Leu Asp His Lys His Leu Asp His Glu Val Ala
 195 200 205
 Lys Pro Ala Arg Arg Lys Arg Leu Pro Glu Met Ala Gln Pro Val Asp
 210 215 220
 Pro Ala His Asn Val Ser Arg Leu His Arg Leu Pro Arg Asp Cys Gln
 225 230 235 240
 Glu Leu Phe Gln Val Gly Glu Arg Gln Ser Gly Leu Phe Glu Ile Gln
 245 250 255
 Pro Gln Gly Ser Pro Pro Phe Leu Val Asn Cys Lys Met Thr Ser Asp
 260 265 270
 Gly Gly Trp Thr Val Ile Gln Arg Arg His Asp Gly Ser Val Asp Phe
 275 280 285
 Asn Arg Pro Trp Glu Ala Tyr Lys Ala Gly Phe Gly Asp Pro His Gly
 290 295 300
 Glu Phe Trp Leu Gly Leu Glu Lys Val His Ser Ile Thr Gly Asp Arg
 305 310 315 320
 Asn Ser Arg Leu Ala Val Gln Leu Arg Asp Trp Asp Gly Asn Ala Glu
 325 330 335
 Leu Leu Gln Phe Ser Val His Leu Gly Gly Glu Asp Thr Ala Tyr Ser
 340 345 350
 Leu Gln Leu Thr Ala Pro Val Ala Gly Gln Leu Gly Ala Thr Thr Val
 355 360 365
 Pro Pro Ser Gly Leu Ser Val Pro Phe Ser Thr Trp Asp Gln Asp His
 370 375 380
 Asp Leu Arg Arg Asp Lys Asn Cys Ala Lys Ser Leu Ser Gly Gly Trp
 385 390 395 400
 Trp Phe Gly Thr Cys Ser His Ser Asn Leu Asn Gly Gln Tyr Phe Arg
 405 410 415
 Ser Ile Pro Gln Gln Arg Gln Lys Leu Lys Lys Gly Ile Phe Trp Lys
 420 425 430
 Thr Trp Arg Gly Arg Tyr Tyr Pro Leu Gln Ala Thr Thr Met Leu Ile
 435 440 445
 Gln Pro Met Ala Ala Glu Ala Ala Ser
 450 455 457

<210> 1271

<211> 394

<212>Amino acid

<213> Homo sapiens

<400> 1271

Ala Leu Asp Phe Gly Asp Ser Cys Gln Trp Pro Arg Pro Gln Asp Thr
 1 5 10 15
 Met Lys Gln Leu Pro Val Leu Glu Pro Gly Asp Lys Pro Arg Lys Ala
 20 25 30
 Thr Trp Tyr Thr Leu Thr Val Pro Gly Asp Ser Pro Cys Ala Arg Val
 35 40 45
 Gly His Ser Cys Ser Tyr Leu Pro Pro Val Gly Asn Ala Lys Arg Gly
 50 55 60
 Lys Val Phe Ile Val Gly Gly Ala Asn Pro Asn Arg Ser Phe Ser Asp
 65 70 75 80
 Val His Thr Met Asp Leu Gly Lys His Gln Trp Asp Leu Asp Thr Cys
 85 90 95
 Lys Gly Leu Leu Pro Arg Tyr Glu His Ala Ser Phe Ile Pro Ser Cys
 100 105 110
 Thr Pro Asp Arg Ile Trp Val Phe Gly Gly Ala Asn Gln Ser Gly Asn
 115 120 125
 Arg Asn Cys Leu Gln Val Leu Asn Pro Glu Thr Arg Thr Trp Thr Thr
 130 135 140

Pro Glu Val Thr Ser Pro Pro Pro Ser Pro Arg Thr Phe His Thr Ser
 145 150 155 160
 Ser Ala Ala Ile Gly Asn Gln Leu Tyr Val Phe Gly Gly Gly Glu Arg
 165 170 175
 Gly Ala Gln Pro Val Gln Asp Thr Lys Leu His Val Phe Asp Ala Asn
 180 185 190
 Thr Leu Thr Trp Ser Gln Pro Glu Thr Leu Gly Asn Pro Pro Ser Pro
 195 200 205
 Arg His Gly His Val Met Val Ala Ala Gly Thr Lys Leu Phe Ile His
 210 215 220
 Gly Gly Leu Ala Gly Asp Arg Phe Tyr Asp Asp Leu His Cys Ile Asp
 225 230 235 240
 Ile Ser Asp Met Lys Trp Gln Lys Leu Asn Pro Thr Gly Ala Ala Pro
 245 250 255
 Ala Gly Cys Ala Ser His Thr Pro Ala Val Ala Met Gly Lys His Val
 260 265 270
 Tyr Ile Phe Gly Gly Met Thr Pro Ala Gly Ala Pro Gly Thr Gln Cys
 275 280 285
 Thr Gln Tyr His Thr Glu Glu Gln His Trp Asp Pro Cys Leu Lys Phe
 290 295 300
 Asp Thr Pro Ser Tyr Pro Pro Gly Thr Ile Gly Thr His Ser His Val
 305 310 315 320
 Val Ser Phe Pro Trp Pro Val Thr Cys Ala Ser Glu Lys Glu Asp Ser
 325 330 335
 Asn Ser Leu Thr Leu Asn His Glu Ala Glu Lys Glu Asp Ser Ala Asp
 340 345 350
 Lys Val Met Ser His Ser Gly Asp Ser His Glu Glu Ser Gln Thr Ala
 355 360 365
 Thr Leu Leu Cys Leu Val Phe Gly Gly Met Asn Thr Glu Gly Glu Ile
 370 375 380
 Tyr Asp Asp Cys Ile Val Thr Val Val Asp
 385 390 394

<210> 1272
 <211> 176
 <212> Amino acid
 <213> Homo sapiens

<400> 1272
 Gly Phe Ser Ile Gly Lys Ala Thr Asp Arg Met Asp Ala Phe Arg Lys
 1 5 10 15
 Ala Lys Asn Arg Ala Val His His Leu His Tyr Ile Glu Arg Tyr Glu
 20 25 30
 Asp His Thr Ile Phe His Asp Ile Ser Leu Arg Phe Lys Arg Thr His
 35 40 45
 Ile Lys Met Lys Lys Gln Pro Lys Gly Tyr Gly Leu Arg Cys His Arg
 50 55 60
 Ala Ile Ile Thr Ile Cys Arg Leu Ile Gly Ile Lys Asp Met Tyr Ala
 65 70 75 80
 Lys Val Ser Gly Ser Ile Asn Met Leu Ser Leu Thr Gln Gly Leu Phe
 85 90 95
 Arg Gly Leu Ser Arg Gln Glu Thr His Gln Gln Leu Ala Asp Lys Lys
 100 105 110
 Gly Leu His Val Val Glu Ile Arg Glu Glu Cys Gly Pro Leu Pro Ile
 115 120 125
 Val Val Ala Ser Pro Arg Gly Pro Leu Arg Lys Asp Pro Glu Pro Glu
 130 135 140
 Asp Glu Val Pro Asp Val Lys Leu Asp Trp Glu Asp Val Lys Thr Ala
 145 150 155 160

Gln Gly Met Lys Arg Ser Val Trp Ser Asn Leu Lys Arg Ala Ala Thr
 165 170 175 176

<210> 1273
 <211> 457
 <212> Amino acid
 <213> Homo sapiens

<400> 1273
 Ala Asp Pro His Thr Thr Val Ile Arg Phe Phe Pro Ala Ala Ser Ala
 1 5 10 15
 Thr Lys Arg Val Leu Pro Pro Val Leu Arg Val Ser Ser Pro Arg Thr
 20 25 30
 Trp Asn Pro Asn Val Pro Glu Ser Pro Arg Ile Pro Ala Pro Arg Leu
 35 40 45
 Pro Lys Arg Met Ser Gly Ala Pro Thr Ala Gly Ala Ala Leu Met Leu
 50 55 60
 Cys Ala Ala Thr Ala Val Leu Leu Ser Ala Gln Gly Gly Pro Val Gln
 65 70 75 80
 Ser Lys Ser Pro Arg Phe Ala Ser Trp Asp Glu Met Asn Val Leu Ala
 85 90 95
 His Gly Leu Leu Gln Leu Gly Gln Gly Leu Arg Glu His Ala Glu Arg
 100 105 110
 Thr Arg Ser Gln Leu Ser Ala Leu Glu Arg Arg Leu Ser Ala Cys Gly
 115 120 125
 Ser Ala Cys Gln Gly Thr Glu Gly Ser Thr Asp Leu Pro Leu Ala Pro
 130 135 140
 Glu Ser Arg Val Asp Pro Glu Val Leu His Ser Leu Gln Thr Gln Leu
 145 150 155 160
 Lys Ala Gln Asn Ser Arg Ile Gln Gln Leu Phe His Lys Val Ala Gln
 165 170 175
 Gln Gln Arg His Leu Glu Lys Gln His Leu Arg Ile Gln His Leu Gln
 180 185 190
 Ser Gln Phe Gly Leu Leu Asp His Lys His Leu Asp His Glu Val Ala
 195 200 205
 Lys Pro Ala Arg Arg Lys Arg Leu Pro Glu Met Ala Gln Pro Val Asp
 210 215 220
 Pro Ala His Asn Val Ser Arg Leu His Arg Leu Pro Arg Asp Cys Gln
 225 230 235 240
 Glu Leu Phe Gln Val Gly Glu Arg Gln Ser Gly Leu Phe Glu Ile Gln
 245 250 255
 Pro Gln Gly Ser Pro Pro Phe Leu Val Asn Cys Lys Met Thr Ser Asp
 260 265 270
 Gly Gly Trp Thr Val Ile Gln Arg Arg His Asp Gly Ser Val Asp Phe
 275 280 285
 Asn Arg Pro Trp Glu Ala Tyr Lys Ala Gly Phe Gly Asp Pro His Gly
 290 295 300
 Glu Phe Trp Leu Gly Leu Glu Lys Val His Ser Ile Thr Gly Asp Arg
 305 310 315 320
 Asn Ser Arg Leu Ala Val Gln Leu Arg Asp Trp Asp Gly Asn Ala Glu
 325 330 335
 Leu Leu Gln Phe Ser Val His Leu Gly Gly Glu Asp Thr Ala Tyr Ser
 340 345 350
 Leu Gln Leu Thr Ala Pro Val Ala Gly Gln Leu Gly Ala Thr Thr Val
 355 360 365
 Pro Pro Ser Gly Leu Ser Val Pro Phe Ser Thr Trp Asp Gln Asp His
 370 375 380

Asp Leu Arg Arg Asp Lys Asn Cys Ala Lys Ser Leu Ser Gly Gly Trp
 385 390 395 400
 Trp Phe Gly Thr Cys Ser His Ser Asn Leu Asn Gly Gln Tyr Phe Arg
 405 410 415
 Ser Ile Pro Gln Gln Arg Gln Lys Leu Lys Lys Gly Ile Phe Trp Lys
 420 425 430
 Thr Trp Arg Gly Arg Tyr Tyr Pro Leu Gln Ala Thr Thr Met Leu Ile
 435 440 445
 Gln Pro Met Ala Ala Glu Ala Ala Ser
 450 455 457

<210> 1274
 <211> 359
 <212> Amino acid
 <213> Homo sapiens

<400> 1274
 Thr Leu Arg Ser Arg Pro Ala Gly Glu Ala Gly Tyr Leu Gly Trp Asp
 1 5 10 15
 Pro Glu Gln Ala Gly Glu Gly Ser Ala Leu Ser Arg Pro Gly Ala Met
 20 25 30
 Ala Ala Leu Met Thr Pro Gly Thr Gly Ala Pro Pro Ala Pro Gly Asp
 35 40 45
 Phe Ser Gly Glu Gly Ser Gln Gly Leu Pro Asp Pro Ser Pro Glu Pro
 50 55 60
 Lys Gln Leu Pro Glu Leu Ile Arg Met Lys Arg Asp Gly Gly Arg Leu
 65 70 75 80
 Ser Glu Ala Asp Ile Arg Gly Phe Val Ala Ala Val Val Asn Gly Ser
 85 90 95
 Ala Gln Gly Ala Gln Ile Gly Ala Trp Gly Gly Leu Gly Val Pro Asp
 100 105 110
 Pro Asp Trp Glu Val Ser Pro Arg Asp Phe Gly Ser Leu Gly Val Arg
 115 120 125
 Arg Cys Pro Thr Thr Ser Thr Gly Pro Arg Val Pro His Arg Cys Gly
 130 135 140
 Leu Pro Pro Ser Arg Val Pro Pro His Thr Arg Gly Met Leu Met Ala
 145 150 155 160
 Ile Arg Leu Arg Gly Met Asp Leu Glu Glu Thr Ser Val Leu Thr Gln
 165 170 175
 Ala Leu Ala Gln Ser Gly Gln Gln Leu Glu Trp Pro Glu Ala Trp Arg
 180 185 190
 Gln Gln Leu Val Asp Lys His Ser Thr Gly Gly Val Gly Asp Lys Val
 195 200 205
 Ser Leu Val Leu Ala Pro Ala Leu Ala Ala Cys Gly Cys Lys Val Ile
 210 215 220
 Asn His Leu Leu Ser Arg Arg Glu Pro Ile Pro His Met Gln Gln Pro
 225 230 235 240
 Val His Pro Gln Ala Ala Pro Asn Leu Lys Pro Gly Pro Lys Pro Pro
 245 250 255
 Arg Pro Tyr Gln Gly Phe Ser Pro Pro Cys Ser Pro Ala Gln Phe Ser
 260 265 270
 Pro Pro Arg Ser Pro Ala Gln Arg Leu Gly Pro Leu Trp Leu Gln Thr
 275 280 285
 Arg Pro Leu Gly Ala Gly Lys Arg Ser Thr Asp Gly Ile Gln Thr Pro
 290 295 300
 Phe Pro Leu Gly Pro Gln Thr Ala Pro Pro Arg Glu Glu Leu Arg Thr
 305 310 315 320
 Ser Leu Pro Leu Pro Gln Ala Leu Phe Pro Gln Gly Gln Val Pro Thr
 325 330 335

Ser Ser Pro Thr Asp Thr Ser Gln Pro Arg Lys Leu Pro Phe His Ser
 340 345 350
 Leu Thr Ser Trp Ala Pro Leu
 355 359

<210> 1275

<211> 146

<212>Amino acid

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(146)

<223> X = any amino acid or stop code

<400> 1275

Arg Ala Leu Arg Glu Leu Arg Glu Arg Val Thr His Gly Leu Ala Glu
 1 5 10 15
 Ala Gly Arg Asp Arg Glu Asp Val Ser Thr Glu Leu Tyr Arg Ala Leu
 20 25 30
 Glu Ala Val Arg Leu Gln Asn Ser Glu Gly Ser Cys Glu Pro Cys Pro
 35 40 45
 Thr Ser Trp Leu Pro Phe Gly Gly Ser Cys Tyr Tyr Phe Ser Val Pro
 50 55 60
 Lys Thr Thr Trp Ala Glu Ala Gln Gly His Cys Ala Asp Ala Ser Ala
 65 70 75 80
 His Leu Ala Ile Val Gly Gly Leu Gly Glu Gln Asp Phe Leu Ser Arg
 85 90 95
 Asp Thr Ser Ala Leu Glu Tyr Trp Ile Gly Arg Arg Ala Val Gln His
 100 105 110
 Leu Arg Lys Val Gln Gly Tyr Ser Trp Val Asp Gly Val Pro Leu Ser
 115 120 125
 Phe Arg Xaa Trp Glu Gly His Pro Gly Glu Thr Trp Gly Pro Gln Val
 130 135 140
 Arg Leu
 145 146

<210> 1276

<211> 187

<212>Amino acid

<213> Homo sapiens

<400> 1276

Arg Trp Pro Arg Ser Trp Pro Pro Arg Ala Gly Ala Ala Arg Gly Ala
 1 5 10 15
 Ala Glu Ala Ala Met Val Gly Ala Leu Cys Gly Cys Trp Phe Arg Leu
 20 25 30
 Gly Gly Ala Arg Pro Leu Ile Pro Leu Gly Pro Thr Val Val Gln Thr
 35 40 45
 Ser Met Ser Arg Ser Gln Val Ala Leu Leu Gly Leu Ser Leu Leu Leu
 50 55 60
 Met Leu Leu Leu Tyr Val Gly Leu Pro Gly Pro Pro Glu Gln Thr Ser
 65 70 75 80
 Cys Leu Trp Gly Asp Pro Asn Val Thr Val Leu Ala Gly Leu Thr Pro

```
<210> 1277
<211> 481
<212> Amino acid
<213> Homo sapiens
```

783

```

305          310          315          320
Ala Leu Ser Leu Ile Lys Asp Leu Gly Leu Arg Pro Lys Arg Thr Leu
          325          330          335
Arg Leu Val Leu Trp Thr Ala Glu Glu Gln Gly Gly Val Gly Ala Phe
          340          345          350
Gln Tyr Tyr Gln Leu His Lys Val Asn Ile Ser Asn Tyr Ser Leu Val
          355          360          365
Met Glu Ser Asp Ala Gly Thr Phe Leu Pro Thr Gly Leu Gln Phe Thr
          370          375          380
Gly Ser Glu Lys Ala Arg Ala Ile Met Glu Glu Val Met Ser Leu Leu
385          390          395          400
Gln Pro Leu Asn Ile Thr Gln Val Leu Ser His Gly Glu Gly Thr Asp
          405          410          415
Ile Asn Phe Trp Ile Gln Ala Gly Val Pro Gly Ala Ser Leu Leu Asp
          420          425          430
Asp Leu Tyr Lys Tyr Phe Phe Phe His His Ser His Gly Asp Thr Met
          435          440          445
Thr Val His Gly Ile Gln Thr Gln Met Asn Val Ala Ala Val Trp
          450          455          460
Ala Val Val Ser Tyr Val Val Ala Asp Met Glu Glu Met Leu Pro Arg
465          470          475          480
Ser
481

```

```

<210> 1278
<211> 428
<212>Amino acid
<213> Homo sapiens

```

```

<400> 1278
Thr Lys Pro Arg Lys Arg Arg His Gln Pro Ala Ser Gln Arg Gln Arg
 1          5          10          15
Pro Trp Ser Ser Asp Ser Thr Gly Asp Leu Leu Ala Arg Gly Lys Gly
          20          25          30
Arg Lys Glu Asn Lys Gly Ser Asp Arg Val Ser Leu Ala Pro Pro
          35          40          45
Ser Leu Arg Arg Pro Met Met Cys Gln Ser Glu Ala Arg Gln Gly Pro
          50          55          60
Glu Leu Arg Ala Ala Lys Trp Leu His Phe Pro Gln Leu Ala Leu Arg
          65          70          75          80
Arg Arg Leu Gly Gln Leu Ser Cys Met Ser Arg Pro Ala Leu Lys Leu
          85          90          95
Arg Ser Trp Pro Leu Thr Val Leu Tyr Tyr Leu Leu Pro Phe Gly Ala
          100          105          110
Leu Arg Pro Leu Ser Arg Val Gly Trp Arg Pro Val Ser Arg Val Ala
          115          120          125
Leu Tyr Lys Ser Val Pro Thr Arg Leu Leu Ser Arg Ala Trp Gly Arg
          130          135          140
Leu Asn Gln Val Glu Leu Pro His Trp Leu Arg Arg Pro Val Tyr Ser
145          150          155          160
Leu Tyr Ile Trp Thr Phe Gly Val Asn Met Lys Glu Ala Ala Val Glu
          165          170          175
Asp Leu His His Tyr Arg Asn Leu Ser Glu Phe Phe Arg Arg Lys Leu
          180          185          190
Lys Pro Gln Ala Arg Pro Val Cys Gly Leu His Ser Val Ile Ser Pro
          195          200          205
Ser Asp Gly Arg Ile Leu Asn Phe Gly Gln Val Lys Asn Cys Glu Val
          210          215          220
Glu Gln Val Lys Gly Val Thr Tyr Ser Leu Glu Ser Phe Leu Gly Pro

```

```

225          230          235          240
Arg Met Cys Thr Glu Asp Leu Pro Phe Pro Pro Ala Ala Ser Cys Asp
          245          250          255
Ser Phe Lys Asn Gln Leu Val Thr Arg Glu Gly Asn Glu Leu Tyr His
          260          265          270
Cys Val Ile Tyr Leu Ala Pro Gly Asp Tyr His Cys Phe His Ser Pro
          275          280          285
Thr Asp Trp Thr Val Ser His Arg Arg His Phe Pro Gly Ser Leu Met
          290          295          300
Ser Val Asn Pro Gly Met Ala Arg Trp Ile Lys Glu Leu Phe Cys His
305          310          315          320
Asn Glu Arg Val Val Leu Thr Gly Asp Trp Lys His Gly Phe Phe Ser
          325          330          335
Leu Thr Ala Val Gly Ala Thr Asn Trp Gly Ser Ile Arg Ile Tyr Phe
          340          345          350
Asp Arg Asp Leu His Thr Asn Ser Pro Arg His Ser Lys Gly Ser Tyr
          355          360          365
Asn Asp Phe Ser Phe Val Thr His Thr Asn Arg Glu Gly Val Pro Met
          370          375          380
Arg Lys Gly Glu His Leu Gly Glu Phe Asn Leu Gly Ser Thr Ile Val
385          390          395          400
Leu Ile Phe Glu Ala Pro Lys Asp Phe Asn Phe Gln Leu Lys Thr Gly
          405          410          415
Gln Lys Ile Arg Phe Gly Glu Ala Leu Gly Ser Leu
          420          425          428

```

<210> 1279
 <211> 633
 <212> Amino acid
 <213> Homo sapiens

```

<400> 1279
Leu Pro Glu Arg Ala Phe Gly Pro Arg Thr Pro Arg Ala Pro Arg Arg
 1          5          10          15
Arg Arg Arg Arg Leu Leu Leu Ser Pro Pro Pro Arg Pro Pro Pro
          20          25          30
Leu Asp Arg Glu Pro Arg Ala Pro Gly Pro Trp Leu Cys Pro Ser Arg
          35          40          45
Ala Gly Thr Ala Gln Asp Pro Ala Arg Ile Arg Glu Arg Arg Gly Arg
          50          55          60
Val Ala Gly Gly Ala Ala Gly Pro Ala Met Glu Leu Arg Ala Arg Gly
          65          70          75          80
Trp Trp Leu Leu Cys Ala Ala Ala Ala Leu Val Ala Cys Ala Arg Gly
          85          90          95
Asp Pro Ala Ser Lys Ser Arg Ser Cys Gly Glu Val Arg Gln Ile Tyr
          100          105          110
Gly Ala Lys Gly Phe Ser Ser Ser Asp Val Pro Gln Ala Glu Ile Ser
          115          120          125
Gly Glu His Leu Arg Ile Cys Pro Gln Gly Tyr Thr Cys Cys Thr Ser
          130          135          140
Glu Met Glu Glu Asn Leu Ala Asn Arg Ser His Ala Glu Leu Glu Thr
          145          150          155          160
Ala Leu Arg Asp Ser Ser Arg Val Leu Gln Ala Met Leu Ala Thr Gln
          165          170          175
Leu Arg Ser Phe Asp Asp His Phe Gln His Leu Leu Asn Asp Ser Glu
          180          185          190
Arg Thr Leu Gln Ala Thr Phe Pro Gly Ala Phe Gly Glu Leu Tyr Thr
          195          200          205
Gln Asn Ala Arg Ala Phe Arg Asp Leu Tyr Ser Glu Leu Arg Leu Tyr

```

210	215	220
Tyr Arg Gly Ala Asn Leu	His Leu Glu Glu Thr	Leu Ala Glu Phe Trp
225	230	235
Ala Arg Leu Leu Glu Arg	Leu Phe Lys Gln Leu	His Pro Gln Leu Leu
245	250	255
Leu Pro Asp Asp Tyr Leu	Asp Cys Leu Gly Lys	Gln Ala Glu Ala Leu
260	265	270
Arg Pro Phe Gly Glu Ala	Pro Arg Glu Leu Arg	Leu Arg Ala Thr Arg
275	280	285
Ala Phe Val Ala Ala Arg	Ser Phe Val Gln Gly	Leu Gly Val Ala Ser
290	295	300
Asp Val Val Arg Lys Val	Ala Gln Val Pro Leu	Gly Pro Glu Cys Ser
305	310	315
Arg Ala Val Ile Glu Ala	Gly Ser Tyr Cys Ala	Leu His Cys Val Gly
325	330	335
Val Pro Gly Ala Arg Pro	Cys Pro Asp Tyr Cys	Arg Asn Val Leu Lys
340	345	350
Gly Cys Leu Ala Asn Gln	Ala Asp Leu Asp Ala	Glu Trp Arg Asn Leu
355	360	365
Leu Asp Ser Met Val Leu	Ile Thr Asp Lys Phe	Trp Gly Thr Ser Gly
370	375	380
Val Glu Ser Val Ile Gly	Ser Val His Thr Trp	Leu Ala Glu Ala Ile
385	390	395
Asn Ala Leu Gln Asp Asn	Arg Asp Thr Leu Thr	Ala Lys Val Ile Gln
405	410	415
Gly Cys Gly Asn Pro Lys	Val Asn Pro Gln Gly	Pro Gly Pro Glu Glu
420	425	430
Lys Arg Arg Arg Gly Lys	Leu Ala Pro Arg Glu	Arg Pro Pro Ser Gly
435	440	445
Thr Leu Glu Lys Leu Val	Ser Glu Ala Lys Ala	Gln Leu Arg Asp Val
450	455	460
Gln Asp Phe Trp Ile Ser	Leu Pro Gly Thr Leu	Cys Ser Glu Lys Met
465	470	475
Ala Leu Ser Thr Ala Ser	Asp Asp Arg Cys Trp	Asn Gly Met Ala Arg
485	490	495
Gly Arg Tyr Leu Pro Glu	Val Met Gly Asp Gly	Leu Ala Asn Gln Ile
500	505	510
Asn Asn Pro Glu Val Glu	Val Asp Ile Thr Lys	Pro Asp Met Thr Ile
515	520	525
Arg Gln Gln Ile Met Gln	Leu Lys Ile Met Thr	Asn Arg Leu Arg Ser
530	535	540
Ala Tyr Asn Gly Asn Asp	Val Asp Phe Gln Asp	Ala Ser Asp Asp Gly
545	550	555
Ser Gly Ser Gly Ser Gly	Asp Gly Cys Leu Asp	Asp Leu Cys Gly Arg
565	570	575
Lys Val Ser Arg Lys Ser	Ser Ser Ser Arg Thr	Pro Leu Thr His Ala
580	585	590
Leu Pro Gly Leu Ser Glu	Gln Glu Gly Gln Lys	Thr Ser Ala Ala Ser
595	600	605
Cys Pro Gln Pro Pro Thr	Phe Leu Leu Pro Leu	Leu Leu Phe Leu Ala
610	615	620
Leu Thr Val Ala Arg Pro	Arg Trp Arg	
625	630	633

<210> 1280

<211> 133

<212>Amino acid

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(133)

<223> X = any amino acid or stop code

<400> 1280

```

Ala Thr Glu Leu Thr Arg Ala Gly Met Glu Ala Ser Ala Leu Thr Lys
 1           5           10           15
Ser Ala Val Thr Ser Val Ala Lys Val Val Arg Val Ala Ser Gly Ser
          20           25           30
Ala Val Val Leu Pro Leu Ala Arg Ile Ala Thr Ser Cys Asp Xaa Arg
          35           40           45
Val Gly Gly Pro Val Gln Ala Val Pro Met Val Leu Ser Ala Met Gly
          50           55           60
Leu Gln Leu Arg Ala Gly Ile Ala Ser Ser Ser Ile Ala Ala Lys Met
 65           70           75           80
Met Ser Ala Ala Ala Ile Ala Asn Gly Gly Gly Val Ser Pro Gly Gln
          85           90           95
Pro Leu Trp Leu Leu Leu Gln Ser Leu Gly Ala Thr Gly Leu Ser Gly
          100          105          110
Leu Thr Lys Phe Ile Leu Gly Ser Ile Gly Ser Ala Ile Ala Ala Val
          115          120          125
Ile Ala Arg Phe Tyr
          130          133

```

<210> 1281

<211> 457

<212>Amino acid

<213> Homo sapiens

<400> 1281

```

Thr Asn Gly Arg Asn Leu Leu His His Trp Ile Leu Gly Val Cys Gly
 1           5           10           15
Met His Pro His His Gln Glu Thr Leu Lys Lys Asn Arg Val Val Leu
          20           25           30
Ala Lys Gln Leu Leu Leu Ser Glu Leu Leu Glu His Leu Leu Glu Lys
          35           40           45
Asp Ile Ile Thr Leu Glu Met Arg Glu Leu Ile Gln Ala Lys Val Gly
          50           55           60
Ser Phe Ser Gln Asn Val Glu Leu Leu Asn Leu Leu Pro Lys Arg Gly
 65           70           75           80
Pro Gln Ala Phe Asp Ala Phe Cys Glu Ala Leu Arg Glu Thr Lys Gln
          85           90           95
Gly His Leu Glu Asp Met Leu Leu Thr Thr Leu Ser Gly Leu Gln His
          100          105          110
Val Leu Pro Pro Leu Ser Cys Asp Tyr Asp Leu Ser Leu Pro Phe Pro
          115          120          125
Val Cys Glu Ser Cys Pro Leu Tyr Lys Lys Leu Arg Leu Ser Thr Asp
          130          135          140
Thr Val Glu His Ser Leu Asp Asn Lys Asp Gly Pro Val Cys Leu Gln
 145          150          155          160
Val Lys Pro Cys Thr Pro Glu Phe Tyr Gln Thr His Phe Gln Leu Ala
          165          170          175
Tyr Arg Leu Gln Ser Arg Pro Arg Gly Leu Ala Leu Val Leu Ser Asn
          180          185          190
Val His Phe Thr Gly Glu Lys Glu Leu Glu Phe Arg Ser Gly Gly Asp
          195          200          205
Val Asp His Ser Thr Leu Val Thr Leu Phe Lys Leu Leu Gly Tyr Asp
          210          215          220

```

Val His Val Leu Cys Asp Gln Thr Ala Gln Glu Met Gln Glu Lys Leu
 225 230 235 240
 Gln Asn Phe Ala Gln Leu Pro Ala His Arg Val Thr Asp Ser Cys Ile
 245 250 255
 Val Ala Leu Leu Ser His Gly Val Glu Gly Ala Ile Tyr Gly Val Asp
 260 265 270
 Gly Lys Leu Leu Gln Leu Gln Glu Val Phe Gln Leu Phe Asp Asn Ala
 275 280 285
 Asn Cys Pro Ser Leu Gln Asn Lys Pro Lys Met Phe Phe Ile Gln Ala
 290 295 300
 Cys Arg Gly Gly Ala Ile Gly Ser Leu Gly His Leu Leu Phe Thr
 305 310 315 320
 Ala Ala Thr Ala Ser Leu Ala Leu Glu Thr Asp Arg Gly Val Asp Gln
 325 330 335
 Gln Asp Gly Lys Asn His Ala Gly Ser Pro Gly Cys Glu Glu Ser Asp
 340 345 350
 Ala Gly Lys Glu Lys Leu Pro Lys Met Arg Leu Pro Thr Arg Ser Asp
 355 360 365
 Met Ile Cys Gly Tyr Ala Cys Leu Lys Gly Thr Ala Ala Met Arg Asn
 370 375 380
 Thr Lys Arg Gly Ser Trp Tyr Ile Glu Ala Leu Ala Gln Val Phe Ser
 385 390 395 400
 Glu Arg Ala Cys Asp Met His Val Ala Asp Met Leu Val Lys Val Asn
 405 410 415
 Ala Leu Ile Lys Asp Arg Glu Gly Tyr Ala Pro Gly Thr Glu Phe His
 420 425 430
 Arg Cys Lys Glu Met Ser Glu Tyr Cys Ser Thr Leu Cys Arg His Leu
 435 440 445
 Tyr Leu Phe Pro Gly His Pro Pro Thr
 450 455 457

<210> 1282

<211> 195

<212> Amino acid

<213> Homo sapiens

<400> 1282

Val Arg Gly Lys Glu Val Met Ala Ala Leu Cys Arg Thr Arg Ala Val
 1 5 10 15
 Ala Ala Glu Ser His Phe Leu Arg Val Phe Leu Phe Phe Arg Pro Phe
 20 25 30
 Arg Gly Val Gly Thr Glu Ser Gly Ser Glu Ser Gly Ser Ser Asn Ala
 35 40 45
 Lys Glu Pro Lys Thr Arg Ala Gly Gly Phe Ala Ser Ala Leu Glu Arg
 50 55 60
 His Ser Glu Leu Leu Gln Lys Val Glu Pro Leu Gln Lys Gly Ser Pro
 65 70 75 80
 Lys Asn Val Glu Ser Phe Ala Ser Met Leu Arg His Ser Pro Leu Thr
 85 90 95
 Gln Met Gly Pro Ala Lys Asp Lys Leu Val Ile Gly Arg Ile Phe His
 100 105 110
 Ile Val Glu Asn Asp Leu Tyr Ile Asp Phe Gly Gly Lys Phe His Cys
 115 120 125
 Val Cys Arg Arg Pro Glu Val Asp Gly Glu Lys Tyr Gln Lys Gly Thr
 130 135 140
 Arg Val Arg Leu Arg Leu Asp Leu Glu Leu Thr Ser Arg Phe Leu
 145 150 155 160
 Gly Ala Thr Thr Asp Thr Thr Val Leu Glu Ala Asn Ala Val Leu Leu
 165 170 175

Gly Ile Gln Glu Ser Lys Asp Ser Arg Ser Lys Glu Glu His Leu Glu
 180 185 190
 Lys Tyr Ile
 195

<210> 1283
 <211> 1499
 <212> Amino acid
 <213> Homo sapiens

<400> 1283
 Ile Pro Gly Ala Ser Pro Ala Pro Arg Arg Ala Ala Pro Leu Arg Leu
 1 5 10 15
 Gly Leu Arg Leu Ala Ser Gly Trp Ala Arg Ala Pro Gly Gly Val Ser
 20 25 30
 Pro Val Pro Gly Pro Gly Met Gly Gly Asp Ala Pro Thr Met Ala Arg
 35 40 45
 Ala Gln Ala Leu Val Leu Glu Leu Thr Phe Gln Leu Cys Ala Pro Glu
 50 55 60
 Thr Glu Thr Pro Glu Val Gly Cys Thr Phe Glu Gly Ser Asp Pro
 65 70 75 80
 Ala Val Pro Cys Glu Tyr Ser Gln Ala Gln Tyr Asp Asp Phe Gln Trp
 85 90 95
 Glu Gln Val Arg Ile His Pro Gly Thr Arg Ala Pro Ala Asp Leu Pro
 100 105 110
 His Gly Ser Tyr Leu Met Val Asn Thr Ser Gln His Ala Pro Gly Gln
 115 120 125
 Arg Ala His Val Ile Phe Gln Ser Leu Ser Glu Asn Asp Thr His Cys
 130 135 140
 Val Gln Phe Ser Tyr Phe Leu Tyr Ser Arg Asp Gly His Ser Pro Gly
 145 150 155 160
 Thr Leu Gly Val Tyr Val Arg Val Asn Gly Gly Pro Leu Gly Ser Ala
 165 170 175
 Val Trp Asn Met Thr Gly Ser His Gly Arg Gln Trp His Gln Ala Glu
 180 185 190
 Leu Ala Val Ser Thr Phe Trp Pro Asn Glu Tyr Gln Val Leu Phe Glu
 195 200 205
 Ala Leu Ile Ser Pro Asp Arg Arg Gly Tyr Met Gly Leu Asp Asp Ile
 210 215 220
 Leu Leu Leu Ser Tyr Pro Cys Ala Lys Ala Pro His Phe Ser Arg Leu
 225 230 235 240
 Gly Asp Val Glu Val Asn Ala Gly Gln Asn Ala Ser Phe Gln Cys Met
 245 250 255
 Ala Ala Gly Arg Ala Ala Glu Ala Glu Arg Phe Leu Leu Gln Arg Gln
 260 265 270
 Ser Gly Ala Leu Val Pro Ala Ala Gly Val Arg His Ile Ser His Arg
 275 280 285
 Arg Phe Leu Ala Thr Phe Pro Leu Ala Ala Val Ser Arg Ala Glu Gln
 290 295 300
 Asp Leu Tyr Arg Cys Val Ser Gln Ala Pro Arg Gly Arg Gly Thr Ser
 305 310 315 320
 Leu Asn Phe Ala Glu Phe Met Val Lys Glu Pro Pro Thr Pro Ile Ala
 325 330 335
 Pro Pro Gln Leu Leu Arg Ala Gly Pro Thr Tyr Leu Ile Ile Gln Leu
 340 345 350
 Asn Thr Asn Ser Ile Ile Gly Asp Gly Pro Ile Val Arg Lys Glu Ile
 355 360 365
 Glu Tyr Arg Met Ala Arg Gly Pro Trp Ala Glu Val His Ala Val Ser
 370 375 380

```

Leu Gln Thr Tyr Lys Leu Trp His Leu Asp Pro Asp Thr Glu Tyr Glu
385                      390                      395                      400
Ile Ser Val Leu Leu Thr Arg Pro Gly Asp Gly Gly Thr Gly Arg Pro
                      405                      410                      415
Gly Pro Pro Leu Ile Ser Arg Thr Lys Cys Ala Glu Pro Met Arg Ala
                      420                      425                      430
Pro Lys Gly Leu Ala Phe Ala Glu Ile Gln Ala Arg Gln Leu Thr Leu
                      435                      440                      445
Gln Trp Glu Pro Leu Gly Tyr Asn Val Thr Arg Cys His Thr Tyr Thr
                      450                      455                      460
Val Ser Leu Cys Tyr His Tyr Thr Leu Gly Ser Ser His Asn Gln Thr
465                      470                      475                      480
Ile Arg Glu Cys Val Lys Thr Glu Gln Gly Val Ser Arg Tyr Thr Met
                      485                      490                      495
Lys Asn Leu Leu Pro Tyr Arg Asn Val His Val Arg Leu Val Leu Thr
                      500                      505                      510
Asn Pro Glu Gly Arg Lys Glu Gly Lys Glu Val Thr Phe Gln Thr Asp
                      515                      520                      525
Glu Asp Val Pro Ser Gly Ile Ala Ala Glu Ser Leu Thr Phe Thr Pro
530                      535                      540
Leu Glu Asp Met Ile Phe Leu Lys Trp Glu Glu Pro Gln Glu Pro Asn
545                      550                      555                      560
Gly Leu Ile Thr Gln Tyr Glu Ile Ser Tyr Gln Ser Ile Glu Ser Ser
                      565                      570                      575
Asp Pro Ala Val Asn Val Pro Gly Pro Arg Arg Thr Ile Ser Lys Leu
                      580                      585                      590
Arg Asn Glu Thr Tyr His Val Phe Ser Asn Leu His Pro Gly Thr Thr
                      595                      600                      605
Tyr Leu Phe Ser Val Arg Ala Arg Thr Gly Lys Gly Phe Gly Gln Ala
610                      615                      620
Ala Leu Thr Glu Ile Thr Thr Asn Ile Ser Ala Pro Ser Phe Asp Tyr
625                      630                      635                      640
Ala Asp Met Pro Ser Pro Leu Gly Glu Ser Glu Asn Thr Ile Thr Val
                      645                      650                      655
Leu Leu Arg Pro Ala Gln Gly Arg Gly Ala Pro Ile Ser Val Tyr Gln
660                      665                      670
Val Ile Val Glu Glu Glu Gln Gly Ser Arg Arg Leu Arg Arg Glu Pro
675                      680                      685
Gly Gly Gln Asp Cys Phe Pro Val Pro Leu Thr Phe Glu Ala Ala Leu
690                      695                      700
Ala Arg Gly Leu Val Asp Tyr Phe Gly Ala Glu Leu Ala Ala Ser Ser
705                      710                      715                      720
Leu Pro Glu Ala Met Pro Phe Thr Val Gly Asp Asn Lys Thr Tyr Arg
                      725                      730                      735
Gly Phe Trp Asn Pro Pro Leu Glu Pro Arg Lys Ala Tyr Leu Ile Tyr
740                      745                      750
Phe Gln Ala Ala Ser His Leu Lys Gly Glu Thr Arg Leu Asn Cys Ile
755                      760                      765
Arg Ile Ala Arg Lys Ala Ala Cys Lys Glu Ser Lys Arg Pro Leu Glu
770                      775                      780
Val Ser Gln Arg Ser Glu Glu Met Gly Leu Ile Leu Gly Ile Cys Ala
785                      790                      795                      800
Gly Gly Leu Ala Val Leu Ile Leu Leu Leu Gly Ala Ile Ile Val Ile
                      805                      810                      815
Ile Arg Lys Gly Arg Asp His Tyr Ala Tyr Ser Tyr Tyr Pro Lys Pro
820                      825                      830
Val Asn Met Thr Lys Ala Thr Val Asn Tyr Arg Gln Glu Lys Thr His
835                      840                      845
Met Met Ser Ala Val Asp Arg Ser Phe Thr Asp Gln Ser Thr Leu Gln
850                      855                      860
Glu Asp Glu Arg Leu Gly Leu Ser Phe Met Asp Thr His Gly Tyr Ser
865                      870                      875                      880
Thr Arg Gly Asp Gln Arg Ser Gly Gly Val Thr Glu Ala Ser Ser Leu
885                      890                      895

```

Leu Gly Gly Ser Pro Arg Arg Pro Cys Gly Arg Lys Gly Ser Pro Tyr
 900 905 910
 His Thr Gly Gln Leu His Pro Ala Val Arg Val Ala Asp Leu Leu Gln
 915 920 925
 His Ile Asn Gln Met Lys Thr Ala Glu Gly Tyr Gly Phe Lys Gln Glu
 930 935 940
 Tyr Glu Ser Phe Phe Glu Gly Trp Asp Ala Thr Lys Lys Lys Asp Lys
 945 950 955 960
 Val Lys Gly Ser Arg Gln Glu Pro Met Pro Ala Tyr Asp Arg His Arg
 965 970 975
 Val Lys Leu His Pro Met Leu Gly Asp Pro Asn Ala Asp Tyr Ile Asn
 980 985 990
 Ala Asn Tyr Ile Asp Ile Arg Ile Asn Arg Glu Gly Tyr His Arg Ser
 995 1000 1005
 Asn His Phe Ile Ala Thr Gln Gly Pro Lys Pro Glu Met Val Tyr Asp
 1010 1015 1020
 Phe Trp Arg Met Val Trp Gln Glu His Cys Ser Ser Ile Val Met Ile
 1025 1030 1035 1040
 Thr Lys Leu Val Glu Val Gly Arg Val Lys Cys Ser Arg Tyr Trp Pro
 1045 1050 1055
 Glu Asp Ser Asp Thr Tyr Gly Asp Ile Lys Ile Met Leu Val Lys Thr
 1060 1065 1070
 Glu Thr Leu Ala Glu Tyr Val Val Arg Thr Phe Ala Leu Glu Arg Arg
 1075 1080 1085
 Gly Tyr Ser Ala Arg His Glu Val Arg Gln Phe His Phe Thr Ala Trp
 1090 1095 1100
 Pro Glu His Gly Val Pro Tyr His Ala Thr Gly Leu Leu Ala Phe Ile
 1105 1110 1115 1120
 Arg Arg Val Lys Ala Ser Thr Pro Pro Asp Ala Gly Pro Ile Val Ile
 1125 1130 1135
 His Cys Ser Ala Gly Thr Gly Arg Thr Gly Cys Tyr Ile Val Leu Asp
 1140 1145 1150
 Val Met Leu Asp Met Ala Glu Cys Glu Gly Val Val Asp Ile Tyr Asn
 1155 1160 1165
 Cys Val Lys Thr Leu Cys Ser Arg Arg Val Asn Met Ile Gln Thr Glu
 1170 1175 1180
 Glu Gln Tyr Ile Phe Ile His Asp Ala Ile Leu Glu Ala Cys Leu Cys
 1185 1190 1195 1200
 Gly Glu Thr Thr Ile Pro Val Ser Glu Phe Lys Ala Thr Tyr Lys Glu
 1205 1210 1215
 Met Ile Arg Ile Asp Pro Gln Ser Asn Ser Ser Gln Leu Arg Glu Glu
 1220 1225 1230
 Phe Gln Thr Leu Asn Ser Val Thr Pro Pro Leu Asp Val Glu Glu Cys
 1235 1240 1245
 Ser Ile Ala Leu Leu Pro Arg Asn Arg Asp Lys Asn Arg Ser Met Asp
 1250 1255 1260
 Val Leu Pro Pro Asp Arg Cys Leu Pro Phe Leu Ile Ser Thr Asp Gly
 1265 1270 1275 1280
 Asp Ser Asn Asn Tyr Ile Asn Ala Ala Leu Thr Asp Ser Tyr Thr Arg
 1285 1290 1295
 Ser Ala Ala Phe Ile Val Thr Leu His Pro Leu Gln Ser Thr Thr Pro
 1300 1305 1310
 Asp Phe Trp Gly Leu Val Tyr Asp Tyr Gly Cys Thr Ser Ile Val Met
 1315 1320 1325
 Leu Asn Gln Leu Asn Gln Ser Asn Ser Ala Trp Pro Cys Leu Gln Tyr
 1330 1335 1340
 Trp Pro Glu Pro Gly Arg Gln Gln Tyr Gly Leu Met Glu Val Glu Phe
 1345 1350 1355 1360
 Met Ser Gly Thr Ala Asp Glu Asp Leu Val Ala Arg Val Phe Arg Val
 1365 1370 1375
 Gln Asn Ile Ser Arg Leu Gln Glu Gly His Leu Leu Val Arg His Phe
 1380 1385 1390
 Gln Phe Leu Arg Trp Ser Ala Tyr Arg Asp Thr Pro Asp Ser Lys Lys
 1395 1400 1405

Ala Phe Leu His Leu Leu Ala Glu Gly Asp Lys Trp Gln Ala Glu Ser
 1410 1415 1420
 Gly Asp Gly Arg Thr Ile Val His Cys Leu Asn Gly Gly Arg Ser
 1425 1430 1435 1440
 Gly Thr Phe Cys Ala Cys Ala Thr Val Leu Glu Met Ile Arg Cys His
 1445 1450 1455
 Asn Leu Val Asp Val Phe Phe Ala Ala Lys Thr Leu Arg Asn Tyr Lys
 1460 1465 1470
 Pro Asn Met Val Glu Thr Met Asp Gln Tyr His Phe Cys Tyr Asp Val
 1475 1480 1485
 Ala Leu Glu Tyr Leu Glu Gly Leu Glu Ser Arg
 1490 1495 1499

<210> 1284
 <211> 430
 <212> Amino acid
 <213> Homo sapiens

<400> 1284
 Thr Lys Pro Arg Lys Arg Arg His Gln Pro Ala Ser Gln Arg Gln Arg
 1 5 10 15
 Pro Trp Ser Ser Asp Ser Thr Gly Asp Leu Leu Ala Arg Gly Lys Gly
 20 25 30
 Arg Lys Glu Glu Asn Lys Gly Ser Asp Arg Val Ser Leu Ala Pro Pro
 35 40 45
 Ser Leu Arg Arg Pro Met Met Cys Gln Ser Glu Ala Arg Gln Gly Pro
 50 55 60
 Glu Leu Arg Ala Ala Lys Trp Leu His Phe Pro Gln Leu Ala Leu Arg
 65 70 75 80
 Arg Arg Leu Gly Gln Leu Ser Cys Met Ser Arg Pro Ala Leu Lys Leu
 85 90 95
 Arg Ser Trp Pro Leu Thr Val Leu Tyr Tyr Leu Leu Pro Phe Gly Ala
 100 105 110
 Leu Arg Pro Leu Ser Arg Val Gly Trp Arg Pro Val Ser Arg Val Ala
 115 120 125
 Leu Tyr Lys Ser Val Pro Thr Arg Leu Leu Ser Arg Ala Trp Gly Arg
 130 135 140
 Leu Asn Gln Val Glu Leu Pro His Trp Leu Arg Arg Pro Val Tyr Ser
 145 150 155 160
 Leu Tyr Ile Trp Thr Phe Gly Val Asn Met Lys Glu Ala Ala Val Glu
 165 170 175
 Asp Leu His His Tyr Arg Asn Leu Ser Glu Phe Phe Arg Arg Lys Leu
 180 185 190
 Lys Pro Gln Ala Arg Pro Val Cys Gly Leu His Ser Val Ile Ser Pro
 195 200 205
 Ser Asp Gly Arg Ile Leu Asn Phe Gly Gln Val Lys Asn Cys Glu Val
 210 215 220
 Glu Gln Val Lys Gly Val Thr Tyr Ser Leu Glu Ser Phe Leu Gly Pro
 225 230 235 240
 Arg Met Cys Thr Glu Asp Leu Pro Phe Pro Pro Ala Ala Ser Cys Asp
 245 250 255
 Ser Phe Lys Asn Gln Leu Val Thr Arg Glu Gly Asn Glu Leu Tyr His
 260 265 270
 Cys Val Ile Tyr Leu Ala Pro Gly Asp Tyr His Cys Phe His Ser Pro
 275 280 285
 Thr Asp Trp Thr Val Ser His Arg Arg His Phe Pro Gly Ser Leu Met
 290 295 300
 Ser Val Asn Pro Gly Met Ala Arg Trp Ile Lys Glu Leu Phe Cys His
 305 310 315 320

```

Asn Glu Arg Val Val Leu Thr Gly Asp Trp Lys His Gly Phe Phe Ser
      325      330      335
Leu Thr Ala Val Gly Ala Thr Asn Trp Gly Ser Ile Arg Ile Tyr Phe
      340      345      350
Asp Arg Asp Leu His Thr Asn Ser Pro Arg His Ser Lys Gly Ser Tyr
      355      360      365
Asn Asp Phe Ser Phe Val Thr His Thr Asn Arg Glu Gly Val Pro Met
      370      375      380
Ala Leu Arg Gly Glu His Leu Gly Gln Ser Phe Asn Leu Gly Ser Thr
385      390      395      400
Ile Val Leu Ile Phe Glu Ala Pro Lys Asp Phe Asn Phe Gln Leu Lys
      405      410      415
Thr Gly Gln Lys Ile Arg Phe Gly Glu Ala Leu Gly Ser Leu
      420      425      430

```

<210> 1285

<211> 957

<212>Amino acid

<213> Homo sapiens

<400> 1285

```

Ala Glu Leu Gly Leu Phe Gly Ser Leu Arg Phe Ser Ser Leu Leu His
 1      5      10      15
Phe Pro Pro Arg Pro Arg Ser Pro Ala Ser Ala Cys Gly Pro Gly Glu
      20      25      30
Gly Arg Met Glu Arg Gly Leu Pro Leu Leu Cys Ala Val Leu Ala Leu
      35      40      45
Val Leu Ala Pro Ala Gly Ala Phe Arg Asn Asp Lys Cys Gly Asp Thr
      50      55      60
Ile Lys Ile Glu Ser Pro Gly Tyr Leu Thr Ser Pro Gly Tyr Pro His
      65      70      75      80
Ser Tyr His Pro Ser Glu Lys Cys Glu Trp Leu Ile Gln Ala Pro Asp
      85      90      95
Pro Tyr Gln Arg Ile Met Ile Asn Phe Asn Pro His Phe Asp Leu Glu
      100      105      110
Asp Arg Asp Cys Lys Tyr Asp Tyr Val Glu Val Phe Asp Gly Glu Asn
      115      120      125
Glu Asn Gly His Phe Arg Gly Lys Phe Cys Gly Lys Ile Ala Pro Pro
      130      135      140
Pro Val Val Ser Ser Gly Pro Phe Leu Phe Ile Lys Phe Val Ser Asp
145      150      155      160
Tyr Glu Thr His Gly Ala Gly Phe Ser Ile Arg Tyr Glu Ile Phe Lys
      165      170      175
Arg Gly Pro Glu Cys Ser Gln Asn Tyr Thr Thr Pro Ser Gly Val Ile
      180      185      190
Lys Ser Pro Gly Phe Pro Glu Lys Tyr Pro Asn Ser Leu Glu Cys Thr
      195      200      205
Tyr Ile Val Phe Ala Pro Lys Met Ser Glu Ile Ile Leu Asp Phe Glu
210      215      220
Ser Phe Asp Leu Glu Pro Asp Ser Asn Pro Pro Gly Gly Met Phe Cys
225      230      235      240
Arg Tyr Asp Arg Leu Glu Ile Trp Asp Gly Phe Pro Asp Val Gly Pro
      245      250      255
His Ile Gly Arg Tyr Cys Gly Gln Lys Thr Pro Gly Arg Ile Arg Ser
      260      265      270
Ser Ser Gly Ile Leu Ser Met Val Phe Tyr Thr Asp Ser Ala Ile Ala
      275      280      285
Lys Glu Gly Phe Ser Ala Asn Tyr Ser Val Leu Gln Ser Ser Val Ser
290      295      300

```

Glu Asp Phe Lys Cys Met Glu Ala Leu Gly Met Glu Ser Gly Glu Ile
 305 310 315 320
 His Ser Asp Gln Ile Thr Ala Ser Ser Gln Tyr Ser Thr Asn Trp Ser
 325 330 335
 Ala Glu Arg Ser Arg Leu Asn Tyr Pro Glu Asn Gly Trp Thr Pro Gly
 340 345 350
 Glu Asp Ser Tyr Arg Glu Trp Ile Gln Val Asp Leu Gly Leu Leu Arg
 355 360 365
 Phe Val Thr Ala Val Gly Thr Gln Gly Ala Ile Ser Lys Glu Thr Lys
 370 375 380
 Lys Lys Tyr Tyr Val Lys Thr Tyr Lys Ile Asp Val Ser Ser Asn Gly
 385 390 395 400
 Glu Asp Trp Ile Thr Ile Lys Glu Gly Asn Lys Pro Val Leu Phe Gln
 405 410 415
 Gly Asn Thr Asn Pro Thr Asp Val Val Val Ala Val Phe Pro Lys Pro
 420 425 430
 Leu Ile Thr Arg Phe Val Arg Ile Lys Pro Ala Thr Trp Glu Thr Gly
 435 440 445
 Ile Ser Met Arg Phe Glu Val Tyr Gly Cys Lys Ile Thr Asp Tyr Pro
 450 455 460
 Cys Ser Gly Met Leu Gly Met Val Ser Gly Leu Ile Ser Asp Ser Gln
 465 470 475 480
 Ile Thr Ser Ser Asn Gln Gly Asp Arg Asn Trp Met Pro Glu Asn Ile
 485 490 495
 Arg Leu Val Thr Ser Arg Ser Gly Trp Ala Leu Pro Pro Ala Pro His
 500 505 510
 Ser Tyr Ile Asn Glu Trp Leu Gln Ile Asp Leu Gly Glu Glu Lys Ile
 515 520 525
 Val Arg Gly Ile Ile Ile Gln Gly Gly Lys His Arg Glu Asn Lys Val
 530 535 540
 Phe Met Arg Lys Phe Lys Ile Gly Tyr Ser Asn Asn Gly Ser Asp Trp
 545 550 555 560
 Lys Met Ile Met Asp Ser Lys Arg Lys Ala Lys Ser Phe Glu Gly
 565 570 575
 Asn Asn Asn Tyr Asp Thr Pro Glu Leu Arg Thr Phe Pro Ala Leu Ser
 580 585 590
 Thr Arg Phe Ile Arg Ile Tyr Pro Glu Arg Ala Thr His Gly Gly Leu
 595 600 605
 Gly Leu Arg Met Glu Leu Leu Gly Cys Glu Val Glu Ala Pro Thr Ala
 610 615 620
 Gly Pro Thr Thr Pro Asn Gly Asn Leu Val Asp Glu Cys Asp Asp Asp
 625 630 635 640
 Gln Ala Asn Cys His Ser Gly Thr Gly Asp Asp Phe Gln Leu Thr Gly
 645 650 655
 Gly Thr Thr Val Leu Ala Thr Glu Lys Pro Thr Val Ile Asp Ser Thr
 660 665 670
 Ile Gln Ser Glu Phe Pro Thr Tyr Gly Phe Asn Cys Glu Phe Gly Trp
 675 680 685
 Gly Ser His Lys Thr Phe Cys His Trp Glu His Asp Asn His Val Gln
 690 695 700
 Leu Lys Trp Ser Val Leu Thr Ser Lys Thr Gly Pro Ile Gln Asp His
 705 710 715 720
 Thr Gly Asp Gly Asn Phe Ile Tyr Ser Gln Ala Asp Glu Asn Gln Lys
 725 730 735
 Gly Lys Val Ala Arg Leu Val Ser Pro Val Val Tyr Ser Gln Asn Ser
 740 745 750
 Ala His Cys Met Thr Phe Trp Tyr His Met Ser Gly Ser His Val Gly
 755 760 765
 Thr Leu Arg Val Lys Leu Arg Tyr Gln Lys Pro Glu Glu Tyr Asp Gln
 770 775 780
 Leu Val Trp Met Ala Ile Gly His Gln Gly Asp His Trp Lys Glu Gly
 785 790 795 800
 Arg Val Leu Leu His Lys Ser Leu Lys Leu Tyr Gln Val Ile Phe Glu
 805 810 815

Gly Glu Ile Gly Lys Gly Asn Leu Gly Gly Ile Ala Val Asp Asp Ile
 820 825 830
 Ser Ile Asn Asn His Ile Ser Gln Glu Asp Cys Ala Lys Pro Ala Asp
 835 840 845
 Leu Asp Lys Lys Asn Pro Glu Ile Lys Ile Asp Glu Thr Gly Ser Thr
 850 855 860
 Pro Gly Tyr Glu Gly Glu Gly Glu Gly Asp Lys Asn Ile Ser Arg Lys
 865 870 875 880
 Pro Gly Asn Val Leu Lys Thr Leu Glu Pro Ile Leu Ile Thr Ile Ile
 885 890 895
 Ala Met Ser Ala Leu Gly Val Leu Leu Gly Ala Val Cys Gly Val Val
 900 905 910
 Leu Tyr Cys Ala Cys Trp His Asn Gly Met Ser Glu Arg Asn Leu Ser
 915 920 925
 Ala Leu Glu Asn Tyr Asn Phe Glu Leu Val Asp Gly Val Lys Leu Lys
 930 935 940
 Lys Asp Lys Leu Asn Thr Gln Ser Thr Tyr Ser Glu Ala
 945 950 955 957

<210> 1286
 <211> 173
 <212> Amino acid
 <213> Homo sapiens

 <220>
 <221> misc_feature
 <222> (1)...(173)
 <223> X = any amino acid or stop code

<400> 1286
 His Glu Gly Ser Ala Leu Thr Trp Ala Ser His Tyr Gln Glu Arg Leu
 1 5 10 15
 Asn Ser Glu Gln Ser Cys Leu Asn Glu Trp Thr Ala Met Ala Asp Leu
 20 25 30
 Glu Ser Leu Arg Pro Pro Ser Ala Glu Pro Gly Gly Ser Val Cys Gly
 35 40 45
 Gly Glu Gly Leu Gly Gly Gly Glu Gly Arg Ile Met Gln Trp Gly Ala
 50 55 60
 Trp Trp Arg Gly Glu Arg Ala Pro Xaa Leu Arg Gly Ser Ala Pro Arg
 65 70 75 80
 Ser Ser Glu Gln Glu Gln Met Glu Gln Ala Ile Arg Ala Glu Leu Trp
 85 90 95
 Lys Val Leu Asp Val Ser Asp Leu Glu Ser Val Thr Ser Lys Glu Ile
 100 105 110
 Arg Gln Ala Leu Glu Leu Arg Leu Gly Leu Pro Leu Gln Pro Val Pro
 115 120 125
 Xaa Leu His Arg Gln Pro Asp Ala Ala Ala Gly Gly Thr Ala Gly Pro
 130 135 140
 Ser Leu Pro His Leu Pro Pro Pro Leu Pro Gly Leu Arg Val Glu Arg
 145 150 155 160
 Ser Lys Pro Gly Gly Ala Ala Glu Glu Gln Val Gly Leu
 165 170 173

<210> 1287
 <211> 181
 <212> Amino acid
 <213> Homo sapiens

<400> 1287

```

Met Ala Ala Leu Asp Leu Arg Ala Glu Leu Asp Ser Leu Val Leu Gln
 1          5          10          15
Leu Leu Gly Asp Leu Glu Glu Leu Glu Gly Lys Arg Thr Val Leu Asn
          20          25          30
Ala Arg Val Glu Glu Gly Trp Leu Ser Leu Ala Lys Ala Arg Tyr Ala
          35          40          45
Met Gly Ala Lys Ser Val Gly Pro Leu Gln Tyr Ala Ser His Met Glu
 50          55          60
Pro Gln Val Cys Leu His Ala Ser Glu Ala Gln Glu Gly Leu Gln Lys
 65          70          75          80
Phe Lys Val Val Arg Ala Gly Val His Ala Pro Glu Glu Val Gly Pro
          85          90          95
Arg Glu Ala Gly Leu Arg Arg Arg Lys Gly Pro Thr Lys Thr Pro Glu
          100          105          110
Pro Glu Ser Ser Glu Ala Pro Gln Asp Pro Leu Asn Trp Phe Gly Ile
          115          120          125
Leu Val Pro His Ser Leu Arg Gln Ala Gln Ala Ser Phe Arg Asp Gly
 130          135          140
Leu Gln Leu Ala Ala Asp Ile Ala Ser Leu Gln Asn Arg Ile Asp Trp
 145          150          155          160
Gly Arg Ser Gln Leu Arg Gly Leu Gln Glu Lys Leu Lys Gln Leu Glu
          165          170          175
Pro Gly Ala Ala *
          180

```

<210> 1288

<211> 216

<212>Amino acid

<213> Homo sapiens

<400> 1288

```

His Ser Asp Val Gly Ala Ala Thr Ala Val Leu Pro Leu Leu Thr Ala
 1          5          10          15
Val Leu Gly Val Thr Val Val Thr Arg Arg Asp Thr Glu Gly Pro Gly
          20          25          30
Arg Ala Ala Leu Val His Leu Thr Gly Ser Pro Arg Gln Lys Val Gly
          35          40          45
Thr Ser Gly Arg Glu Gly Leu Pro Gly Leu Gly Ala Ser Cys Ala Glu
 50          55          60
Ser Glu Leu Glu Arg Glu Thr Gln Glu Pro Arg Ser Arg Gly Arg Cys
 65          70          75          80
Ile Phe Gly Ala Ala Arg Trp Arg Gln Val Pro Leu Ala Ser Pro Gln
          85          90          95
Arg Pro Phe Leu Leu Ser Pro Gly Pro Arg Leu His Arg Met Gly Leu
          100          105          110
Pro Val Ser Trp Ala Pro Pro Ala Leu Trp Val Leu Gly Cys Cys Ala
          115          120          125
Leu Leu Leu Ser Leu Trp Ala Leu Cys Thr Ala Cys Arg Arg Pro Glu
 130          135          140
Asp Ala Val Ala Pro Arg Lys Arg Ala Arg Arg Gln Arg Ala Arg Leu
 145          150          155          160
Gln Gly Ser Ala Thr Ala Ala Glu Ala Val Ser Ala Lys Leu Ser Arg
          165          170          175
Gly Pro Gly Trp Gly Pro Gln Gly Thr Asp Gln Pro Ser Ser Pro Pro

```

```

      180      185      190
Val Pro Thr Glu Ala Asp Pro Pro Leu Leu Pro Gln Gln Val Gly His
      195      200      205
Gln Thr Ala Arg Ala Ala Pro Gly
      210      215 216

```

```

<210> 1289
<211> 148
<212>Amino acid
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(148)
<223> X = any amino acid or stop code

```

```

<400> 1289
Leu Thr Gly Pro Gly Gln Arg Leu Ala Gly Thr Thr Glu Gly Pro Arg
 1      5      10      15
Arg Cys Arg Gly Ser Ser Gln Ala Pro Thr Pro Thr Trp Lys Leu Val
      20      25      30
Asp Thr Arg Leu Cys Ala Ala Ala Pro Trp Leu Ala Ser Arg Ala Pro
      35      40      45
Gly His Tyr Ser Gln Met Leu Leu Val Asn Xaa Pro Cys Arg Lys Asp
      50      55      60
Trp Leu Val Ser Lys Trp Met Arg Thr Pro Val Cys Gly Gln Ser Pro
      65      70      75      80
Ala Met Thr Asp Arg Pro Arg Ser Glu Ala Gly Arg Asp His Arg Arg
      85      90      95
Ala Lys Ala Leu Pro Gly Leu Ile Pro Gly Ser Asn Pro Asn Leu Glu
      100      105      110
Ala Cys Gly His Gln Ala Leu Cys Ser Ser Ser Val Ala Ser Val Gln
      115      120      125
Gly Pro Trp Pro Leu Leu Pro Asn Ala Ser Ser Pro Pro Thr Pro Gly
      130      135      140
Gln Pro Gln Pro
145      148

```

```

<210> 1290
<211> 170
<212>Amino acid
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(170)
<223> X = any amino acid or stop code

```

```

<400> 1290
Lys His Arg Leu Cys Ser Leu Glu Gln Leu Met Thr Leu Ile Ser Ala
 1      5      10      15
Ala Arg Glu Tyr Glu Ile Glu Phe Ile Tyr Ala Ile Ser Pro Gly Leu
      20      25      30
Asp Ile Thr Phe Ser Asn Pro Lys Glu Val Ser Thr Leu Lys Arg Lys

```

```

      35      40      45
Leu Asp Gln Val Ser Gln Phe Gly Cys Arg Ser Phe Ala Leu Leu Phe
  50      55      60
Asp Asp Ile Asp His Asn Met Cys Ala Ala Asp Lys Glu Val Phe Ser
  65      70      75      80
Ser Phe Ala His Ala Gln Val Ser Ile Thr Asn Glu Ile Tyr Gln Tyr
      85      90      95
Leu Gly Glu Pro Glu Thr Phe Leu Phe Cys Pro Thr Glu Tyr Cys Ile
      100      105      110
Xaa Trp Leu Tyr Ile Xaa Leu Val Phe Leu Glu Tyr Ile Thr Tyr Lys
      115      120      125
Gly Pro Trp Ala Pro Phe Ser Leu His Phe Pro Pro Pro Leu Val Cys
      130      135      140
Lys Ser Arg Asn Leu Phe Leu Glu Asp Ile Phe Gln Asp Pro Lys Leu
145      150      155      160
Glu Lys Phe Xaa Glu Leu Ile Asn Asp Asn
      165      170

```

<210> 1291
 <211> 98
 <212> Amino acid
 <213> Homo sapiens

```

      <400> 1291
Thr Ser Ala Leu Thr Gln Gly Leu Glu Arg Ile Pro Asp Gln Leu Gly
  1      5      10      15
Tyr Leu Val Leu Ser Glu Gly Ala Val Leu Ala Ser Ser Gly Asp Leu
      20      25      30
Glu Asn Asp Glu Gln Ala Ala Ser Ala Ile Ser Glu Leu Val Ser Thr
      35      40      45
Ala Cys Gly Phe Arg Leu His Arg Gly Met Asn Val Pro Phe Lys Arg
      50      55      60
Leu Ser Val Val Phe Gly Glu His Thr Leu Leu Val Thr Val Ser Gly
      65      70      75      80
Gln Arg Val Phe Val Val Lys Arg Gln Asn Arg Gly Arg Glu Pro Ile
      85      90      95
Asp Val
  98

```

<210> 1292
 <211> 142
 <212> Amino acid
 <213> Homo sapiens

```

      <400> 1292
Ala Lys Arg Ala Glu Arg Thr Ser Arg Leu Gln Gly Leu Gln His Pro
  1      5      10      15
Ser Pro Pro Tyr Pro Pro Ala Thr Leu Gly Val Thr Pro Gly Gln Asp
      20      25      30
Arg Thr Leu Gln Leu Gln His Gln Cys Pro Ala Gly Arg Lys Ser Arg
      35      40      45
Lys Lys Lys Ser Lys Ala Thr Gln Leu Ser Pro Glu Asp Arg Val Glu
      50      55      60
Asp Ala Leu Pro Pro Ser Lys Ala Pro Ser Arg Thr Arg Arg Ala Lys

```

```

65          70          75          80
Arg Asp Leu Pro Lys Arg Thr Ala Thr Gln Arg Pro Glu Gly Thr Ser
      85          90          95
Leu Gln Gln Asp Pro Glu Ala Pro Thr Val Pro Lys Lys Gly Arg Arg
      100        105        110
Lys Gly Arg Gln Ala Ala Ser Gly His Cys Arg Pro Arg Lys Val Lys
      115        120        125
Ala Asp Ile Pro Ser Leu Glu Pro Glu Gly Thr Ser Ala Ser
      130        135        140        142

```

<210> 1293

<211> 89

<212>Amino acid

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(89)

<223> X = any amino acid or stop code

<400> 1293

```

Arg Lys Ser Ser Trp Leu Gly Ala Val Ala His Ala Cys Asn Pro Ser
1          5          10          15
Ser Leu Gly Gly Pro Gly Arg Gln Ile Thr Arg Ser Gly Val Arg Asp
      20          25          30
Gln Pro Gly Gln Tyr Gly Glu Thr Pro Ser Leu Leu Lys Ile Gln Thr
      35          40          45
Leu Ala Gly Arg Gly Gly Ala Cys Leu Xaa Ser His Ile Leu Arg Arg
      50          55          60
Leu Arg Gln Lys Asn Arg Leu Asn Leu Gly Gly Arg Gly Cys Ser Glu
      65          70          75          80
Leu Arg Ser Arg His Cys Ala Pro Ala
      85          89

```

<210> 1294

<211> 80

<212>Amino acid

<213> Homo sapiens

<400> 1294

```

Ala Trp Asn Ser Ala Arg Gly Ala Val Ser Pro Leu Trp Val Pro Gly
1          5          10          15
Cys Phe Leu Thr Leu Ser Val Thr Trp Ile Gly Ala Ala Pro Leu Ile
      20          25          30
Leu Ser Arg Ile Val Gly Gly Trp Glu Cys Glu Lys His Ser Gln Pro
      35          40          45
Trp Gln Val Leu Val Ala Ser Arg Gly Arg Ala Val Cys Gly Gly Val
      50          55          60
Leu Val His Pro Gln Trp Val Leu Thr Ala Ala His Cys Ile Arg Lys
      65          70          75          80

```

<210> 1295
 <211> 281
 <212>Amino acid
 <213> Homo sapiens

<400> 1295
 Ala Glu Met Ala Asp Asp Leu Gly Asp Glu Trp Trp Glu Asn Gln Pro
 1 5 10 15
 Thr Gly Ala Gly Ser Ser Pro Glu Ala Ser Asp Gly Glu Gly Glu Gly
 20 25 30
 Asp Thr Glu Val Met Gln Gln Glu Thr Val Pro Val Pro Val Pro Ser
 35 40 45
 Glu Lys Thr Lys Gln Pro Lys Glu Cys Phe Leu Ile Gln Pro Lys Glu
 50 55 60
 Arg Lys Glu Asn Thr Thr Lys Thr Arg Lys Arg Arg Lys Lys Lys Ile
 65 70 75 80
 Thr Asp Val Leu Ala Lys Ser Glu Pro Lys Pro Gly Leu Pro Glu Asp
 85 90 95
 Leu Gln Lys Leu Met Lys Asp Tyr Tyr Ser Ser Arg Arg Leu Val Ile
 100 105 110
 Glu Leu Glu Glu Leu Asn Leu Pro Asp Ser Cys Phe Leu Lys Ala Asn
 115 120 125
 Asp Leu Thr His Ser Leu Ser Ser Tyr Leu Lys Glu Ile Cys Pro Lys
 130 135 140
 Trp Val Lys Leu Arg Lys Asn His Ser Glu Lys Lys Ser Val Leu Met
 145 150 155 160
 Leu Ile Ile Cys Ser Ser Ala Val Arg Ala Leu Glu Leu Ile Arg Ser
 165 170 175
 Met Thr Ala Phe Arg Gly Asp Gly Lys Val Ile Lys Leu Phe Ala Lys
 180 185 190
 His Ile Lys Val Gln Ala Gln Val Lys Leu Leu Glu Lys Arg Val Val
 195 200 205
 His Leu Gly Val Gly Thr Pro Gly Arg Ile Lys Glu Leu Val Lys Gln
 210 215 220
 Gly Gly Leu Asn Leu Ser Pro Leu Lys Phe Leu Val Phe Asp Trp Asn
 225 230 235 240
 Trp Arg Asp Gln Lys Leu Arg Arg Met Met Asp Ile Pro Glu Ile Arg
 245 250 255
 Lys Glu Val Phe Glu Leu Leu Glu Met Gly Val Leu Ser Leu Cys Lys
 260 265 270
 Ser Glu Ser Leu Lys Leu Gly Leu Phe
 275 280 281

<210> 1296
 <211> 213
 <212>Amino acid
 <213> Homo sapiens

<400> 1296
 Arg Pro Gly Thr Ala Ile Trp Val Val Glu Cys Glu His Gly Arg Pro
 1 5 10 15
 Ile Ala Glu Ser Glu Gly Gln Glu Gly Arg Gly His Ser Pro Pro Gly
 20 25 30
 Pro Cys Ser Val Ala Gly Phe Leu Arg Gly Arg Leu Gly Arg Asn Leu
 35 40 45

Glu Ile Met Gly Ser Thr Trp Gly Ser Pro Gly Trp Val Arg Leu Ala
 50 55 60
 Leu Cys Leu Thr Gly Leu Val Leu Ser Leu Tyr Ala Leu His Val Lys
 65 70 75 80
 Ala Ala Arg Ala Arg Asp Arg Asp Tyr Arg Ala Leu Cys Asp Val Gly
 85 90 95
 Thr Ala Ile Ser Cys Ser Arg Val Phe Ser Ser Arg Trp Gly Arg Gly
 100 105 110
 Phe Gly Leu Val Glu His Val Leu Gly Gln Asp Ser Ile Leu Asn Gln
 115 120 125
 Ser Asn Ser Ile Phe Gly Cys Ile Phe Tyr Thr Leu Gln Leu Leu Leu
 130 135 140
 Gly Cys Leu Arg Thr Arg Trp Ala Ser Val Leu Met Leu Leu Ser Ser
 145 150 155 160
 Leu Val Ser Leu Ala Gly Ser Val Tyr Leu Ala Trp Ile Leu Phe Phe
 165 170 175
 Val Leu Tyr Asp Phe Cys Ile Val Cys Ile Thr Thr Tyr Ala Ile Asn
 180 185 190
 Val Ser Leu Met Trp Leu Ser Phe Arg Lys Val Gln Glu Pro Gln Gly
 195 200 205
 Lys Ala Lys Arg His
 210 213

<210> 1297

<211> 353

<212>Amino acid

<213> Homo sapiens

<400> 1297

Glu Ser Pro Ala Pro Pro Ala Phe Arg Pro Ala Met Ala Ala Val Ala
 1 5 10 15
 Leu Met Pro Pro Pro Leu Leu Leu Leu Leu Leu Ala Ser Pro Pro
 20 25 30
 Ala Ala Ser Ala Pro Ser Ala Arg Asp Pro Phe Ala Pro Gln Leu Gly
 35 40 45
 Asp Thr Gln Asn Cys Gln Leu Arg Cys Arg Asp Arg Asp Leu Gly Pro
 50 55 60
 Gln Pro Ser Gln Ala Gly Leu Glu Gly Ala Ser Glu Ser Pro Tyr Asp
 65 70 75 80
 Arg Ala Val Leu Ile Ser Ala Cys Glu Arg Gly Cys Arg Leu Phe Ser
 85 90 95
 Ile Cys Arg Phe Val Ala Arg Ser Ser Lys Pro Asn Ala Thr Gln Thr
 100 105 110
 Glu Cys Glu Ala Ala Cys Val Glu Ala Tyr Val Lys Glu Ala Glu Gln
 115 120 125
 Gln Ala Cys Ser His Gly Cys Trp Ser Gln Pro Ala Glu Pro Glu Pro
 130 135 140
 Glu Gln Lys Arg Lys Val Leu Glu Ala Pro Ser Gly Ala Leu Ser Leu
 145 150 155 160
 Leu Asp Leu Phe Ser Thr Leu Cys Asn Asp Leu Val Asn Ser Ala Gln
 165 170 175
 Gly Phe Val Ser Ser Thr Trp Thr Tyr Tyr Leu Gln Thr Asp Asn Gly
 180 185 190
 Lys Val Val Val Phe Gln Thr Gln Pro Ile Val Glu Ser Leu Gly Phe
 195 200 205
 Gln Gly Gly Arg Leu Gln Arg Val Glu Val Thr Trp Arg Gly Ser His
 210 215 220
 Pro Glu Ala Leu Glu Val His Val Asp Pro Val Gly Pro Leu Asp Lys
 225 230 235 240

Val Arg Lys Ala Lys Ile Arg Val Lys Thr Ser Ser Lys Ala Lys Val
 245 250 255
 Glu Ser Glu Glu Pro Gln Asp Asn Asp Phe Leu Ser Cys Met Ser Arg
 260 265 270
 Arg Ser Gly Leu Pro Arg Trp Ile Leu Ala Cys Cys Leu Phe Leu Ser
 275 280 285
 Val Leu Val Met Leu Trp Leu Ser Cys Ser Thr Leu Val Thr Ala Pro
 290 295 300
 Gly Gln His Leu Lys Phe Gln Pro Leu Thr Leu Glu Gln His Lys Gly
 305 310 315 320
 Phe Met Met Glu Pro Asp Trp Pro Leu Tyr Pro Pro Pro Ser His Ala
 325 330 335
 Cys Glu Asp Ser Leu Pro Pro Tyr Lys Leu Lys Leu Asp Leu Thr Lys
 340 345 350
 Leu
 353

<210> 1298
 <211> 161
 <212> Amino acid
 <213> Homo sapiens

<400> 1298
 Phe Pro Glu Leu Gly Thr Ser Leu Ser Ala Met Arg Phe Leu Ala Ala
 1 5 10 15
 Thr Phe Leu Leu Leu Ala Leu Ser Thr Ala Ala Gln Ala Glu Pro Val
 20 25 30
 Gln Phe Lys Asp Cys Gly Ser Val Asp Gly Val Ile Lys Glu Val Asn
 35 40 45
 Val Ser Pro Cys Pro Thr Gln Pro Cys Gln Leu Ser Lys Gly Gln Ser
 50 55 60
 Tyr Ser Val Asn Val Thr Phe Thr Ser Asn Ile Gln Ser Lys Ser Ser
 65 70 75 80
 Lys Ala Val Val His Gly Ile Leu Met Gly Val Pro Val Pro Phe Pro
 85 90 95
 Ile Pro Glu Pro Asp Gly Cys Lys Ser Gly Ile Asn Cys Pro Ile Gln
 100 105 110
 Lys Asp Lys Thr Tyr Ser Tyr Leu Asn Lys Leu Pro Val Lys Ser Glu
 115 120 125
 Tyr Pro Ser Ile Lys Leu Val Val Glu Trp Gln Leu Gln Asp Asp Lys
 130 135 140
 Asn Gln Ser Leu Phe Cys Trp Glu Ile Pro Val Gln Ile Val Ser His
 145 150 155 160
 Leu
 161

<210> 1299
 <211> 128
 <212> Amino acid
 <213> Homo sapiens

<400> 1299
 Ala Pro Glu Thr Phe Arg Cys Val Trp Arg Leu Gln Gly Leu Thr Phe
 1 5 10 15

```

Ile Ala Phe Thr Glu Leu Gln Ala Lys Val Ile Asp Thr Gln Gln Lys
      20      25      30
Val Lys Leu Ala Asp Ile Gln Ile Glu Gln Leu Asn Arg Thr Lys Lys
      35      40      45
His Ala His Leu Thr Asp Thr Glu Ile Met Thr Leu Val Asp Glu Thr
      50      55      60
Asn Met Tyr Glu Gly Val Gly Arg Met Phe Ile Leu Gln Ser Lys Glu
      65      70      75      80
Ala Ile His Ser Gln Leu Leu Glu Lys Gln Lys Ile Ala Glu Glu Lys
      85      90      95
Ile Lys Glu Leu Glu Gln Lys Lys Ser Tyr Leu Glu Arg Ser Val Lys
      100      105      110
Glu Ala Glu Asp Asn Ile Arg Glu Met Leu Met Ala Arg Arg Ala Gln
      115      120      125      128

```

<210> 1300

<211> 265

<212>Amino acid

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(265)

<223> X = any amino acid or stop code

<400> 1300

```

His Ser Leu Leu Leu Gly Thr Arg Val Arg Asp Ala Ser Ser Lys Ile
  1      5      10      15
Gln Gly Glu Tyr Thr Leu Thr Leu Arg Lys Gly Gly Asn Asn Lys Leu
      20      25      30
Ser Arg Val Phe His Arg Asp Gly His Tyr Gly Phe Ser Glu Pro Leu
      35      40      45
Thr Phe Cys Ser Val Val Asp Leu Ile Asn His Tyr Arg His Glu Ser
      50      55      60
Leu Ala Gln Tyr Asn Ala Lys Leu Asp Thr Arg Leu Leu Tyr Pro Val
      65      70      75      80
Ser Lys Tyr Gln Gln Val Arg Ala Gly Leu Gly Ala Arg Glu Gly Ser
      85      90      95
Thr Trp Leu Ala Pro Gly Leu Ser Phe Leu Gly Arg Pro Asp Gln Ala
      100      105      110
Met His Leu Pro Ser Phe Arg His Val Ser Pro Asp Gln Ile Val Lys
      115      120      125
Glu Asp Ser Val Glu Ala Val Gly Ala Gln Leu Lys Val Tyr His Gln
      130      135      140
Gln Tyr Gln Asp Lys Ser Arg Glu Tyr Asp Gln Leu Tyr Glu Glu Tyr
      145      150      155      160
Thr Arg Thr Ser Gln Glu Leu Gln Met Lys Arg Thr Ala Ile Glu Ala
      165      170      175
Phe Asn Glu Thr Ile Lys Ile Phe Glu Glu Gln Gly Gln Thr Gln Glu
      180      185      190
Lys Cys Ser Lys Glu Tyr Leu Glu Arg Phe Arg Arg Glu Gly Asn Gln
      195      200      205
Thr Lys Glu Met Gln Arg Ile Leu Leu Asn Ser Glu Arg Leu Lys Ser
      210      215      220
Arg Ile Ala Glu Ile His Glu Ser Pro His Arg Ser Trp Glu Gln Gln
      225      230      235      240
Leu Leu Val Pro Arg Ala Ser Asp Asn Lys Arg Asp Ile Asp Lys Pro

```

```
<210> 1301
<211> 490
<212> Amino acid
<213> Homo sapiens
```

804

```

385          390          395          400
Trp Val Ser Ser Gln Leu Ala Ala Thr Cys Asn Val Glu Pro Ser Leu
          405          410          415
Phe Thr Asn Trp Phe Ser Gly His Leu Asn Phe Gln Ile Glu His His
          420          425          430
Leu Phe Pro Arg Met Pro Arg His Asn Tyr Ser Arg Val Ala Pro Leu
          435          440          445
Val Lys Ser Leu Cys Ala Lys His Gly Leu Ser Tyr Glu Val Lys Pro
          450          455          460
Phe Leu Thr Ala Leu Val Asp Ile Val Arg Ser Leu Lys Lys Ser Gly
465          470          475          480
Asp Ile Trp Leu Asp Ala Tyr Leu His Gln
          485          490

```

```

<210> 1302
<211> 110
<212>Amino acid
<213> Homo sapiens

```

```

<400> 1302
Lys Ser Arg Ala Thr Arg Leu Arg Glu Ser Ala Glu Met Thr Gly Phe
 1          5          10          15
Leu Leu Pro Pro Ala Ser Arg Gly Thr Arg Arg Ser Cys Ser Arg Ser
          20          25          30
Arg Lys Arg Gln Thr Arg Arg Arg Arg Asn Pro Ser Ser Phe Val Ala
          35          40          45
Ser Cys Pro Thr Leu Leu Pro Phe Ala Cys Val Pro Gly Ala Ser Pro
          50          55          60
Thr Thr Leu Ala Phe Pro Pro Val Val Leu Thr Gly Pro Ser Thr Asp
          65          70          75          80
Gly Ile Pro Phe Ala Leu Ser Leu Gln Arg Val Pro Phe Val Leu Pro
          85          90          95
Ser Pro Gln Val Ala Ser Leu Pro Leu Gly His Ser Arg Gly
          100          105          110

```

```

<210> 1303
<211> 138
<212>Amino acid
<213> Homo sapiens

```

```

<400> 1303
Ile Gln Tyr Arg Ser Asp Leu Glu Leu His Ser Ile Thr Met Lys Lys
 1          5          10          15
Ser Gly Val Leu Phe Leu Leu Gly Ile Ile Leu Leu Val Leu Ile Gly
          20          25          30
Val Gln Gly Thr Pro Val Val Arg Lys Gly Arg Cys Ser Cys Ile Ser
          35          40          45
Thr Asn Gln Gly Thr Ile His Leu Gln Ser Leu Lys Asp Leu Lys Gln
          50          55          60
Phe Ala Pro Ser Pro Ser Cys Glu Lys Ile Glu Ile Ile Ala Thr Leu
          65          70          75          80
Lys Asn Gly Val Gln Thr Cys Leu Asn Pro Asp Ser Ala Asp Val Lys
          85          90          95
Glu Leu Ile Lys Lys Trp Glu Lys Gln Val Ser Gln Lys Lys Lys Gln

```

```
<210> 1304
<211> 1000
<212> Amino acid
<213> Homo sapiens
```

806

370	375	380
Ser Asp Arg Ala Glu Asn	Glu Asn Gly Ser Arg	Cys Phe Ser Glu Asp
385	390	395
Asn Asn Glu Thr Thr Met	Leu Ile Gln Asp Asp	Glu Asn Asn Ser Glu
405	410	415
Met Ser Lys Asp Trp Gln	Lys Glu Lys Met Cys	Asn Lys Ile Asn Lys
420	425	430
Val Asn Ser Glu Gly Glu	Phe Asp Lys Asp Ser	Ile Ser Glu
435	440	445
Thr Val Asp Leu Asn Asn	Gln Glu Thr Val Lys	Val Gln Ile His Ser
450	455	460
Arg Ala Ser Glu Tyr Ile	Thr Asp Val His Ser	Asn Asp Leu Ser Thr
465	470	475
Pro Gln Ile Leu Pro Ser	Asn Glu Gly Val Asn	Pro Arg Leu Ser Ala
485	490	495
Ser Pro Pro Lys Ser Gly	Asn Leu Trp Pro Gly	Leu Ala Pro Pro His
500	505	510
Lys Lys Ala Gln Ser Ala	Ser Pro Lys Arg Lys	Lys Gln His Lys Lys
515	520	525
Tyr Arg Ser Val Ile Ser	Asp Ile Phe Asp Gly	Thr Ile Ile Ser Ser
530	535	540
Val Gln Cys Leu Thr Cys	Asp Arg Val Ser Val	Thr Leu Glu Thr Phe
545	550	555
Gln Asp Leu Ser Leu Pro	Ile Pro Gly Lys Glu	Asp Leu Ala Lys Leu
565	570	575
His Ser Ser Ser His Pro	Thr Ser Ile Val Lys	Ala Gly Ser Cys Gly
580	585	590
Glu Ala Tyr Ala Pro Gln	Gly Trp Ile Ala Phe	Phe Met Glu Tyr Val
595	600	605
Lys Arg Phe Val Val Ser	Cys Val Pro Ser Trp	Phe Trp Gly Pro Val
610	615	620
Val Thr Leu Gln Asp Cys	Leu Ala Ala Phe Phe	Ala Arg Asp Glu Leu
625	630	635
Lys Gly Asp Asn Met Tyr	Ser Cys Glu Lys Cys	Lys Lys Leu Arg Asn
645	650	655
Gly Val Lys Phe Cys Lys	Val Gln Asn Phe Pro	Glu Ile Leu Cys Ile
660	665	670
His Leu Lys Arg Phe Arg	His Glu Leu Met Phe	Ser Thr Lys Ile Ser
675	680	685
Thr His Val Ser Phe Pro	Leu Glu Gly Leu Asp	Leu Gln Pro Phe Leu
690	695	700
Ala Lys Asp Ser Pro Ala	Gln Ile Val Thr Tyr	Asp Leu Leu Ser Val
705	710	715
Ile Cys His His Gly Thr	Ala Ser Ser Gly His	Tyr Ile Ala Tyr Cys
725	730	735
Arg Asn Asn Leu Asn Asn	Leu Trp Tyr Glu Phe	Asp Asp Gln Ser Val
740	745	750
Thr Glu Val Ser Glu Ser	Thr Val Gln Asn Ala	Glu Ala Tyr Val Leu
755	760	765
Phe Tyr Arg Lys Ser Ser	Glu Glu Ala Gln Lys	Glu Arg Arg Arg Ile
770	775	780
Ser Asn Leu Leu Asn Ile	Met Glu Pro Ser Leu	Leu Gln Phe Tyr Ile
785	790	795
Ser Arg Gln Trp Leu Asn	Lys Phe Lys Thr Phe	Ala Glu Pro Gly Pro
805	810	815
Ile Ser Asn Asn Asp Phe	Leu Cys Ile His Gly	Gly Val Pro Pro Arg
820	825	830
Lys Ala Gly Tyr Ile Glu	Asp Leu Val Leu Met	Leu Pro Gln Asn Ile
835	840	845
Trp Asp Asn Leu Tyr Ser	Arg Tyr Gly Gly Gly	Pro Ala Val Asn His
850	855	860
Leu Tyr Ile Cys His Thr	Cys Gln Ile Glu Ala	Glu Lys Ile Glu Lys
865	870	875
Arg Arg Lys Thr Glu Leu	Glu Ile Phe Ile Arg	Leu Asn Arg Ala Phe

```

      885      890      895
Gln Lys Glu Asp Ser Pro Ala Thr Phe Tyr Cys Ile Ser Met Gln Trp
      900      905      910
Phe Arg Glu Trp Glu Ser Phe Val Lys Gly Lys Asp Gly Asp Pro Pro
      915      920      925
Gly Pro Ile Asp Asn Thr Lys Ile Ala Val Thr Lys Cys Gly Asn Val
      930      935      940
Met Leu Arg Gln Gly Ala Asp Ser Gly Gln Ile Ser Glu Glu Thr Trp
      945      950      955
Asn Phe Leu Gln Ser Ile Tyr Gly Gly Gly Pro Glu Val Ile Leu Arg
      965      970      975
Pro Pro Val Val His Val Asp Pro Asp Ile Leu Gln Ala Glu Glu Lys
      980      985      990
Ile Glu Val Glu Thr Arg Ser Leu
      995      1000

```

<210> 1305
 <211> 141
 <212> Amino acid
 <213> Homo sapiens

```

      <400> 1305
Ser Pro Ser Ala Ala Gly Gly Leu Ala Trp Val Ser Leu Ala Leu Gly
  1      5      10      15
Ser Gly Ser Arg Gly Arg Asp His Ser Gly Ser Gly Val Gly Thr Ala
      20      25      30
Met Ala Gly Ala Leu Val Arg Lys Ala Ala Asp Tyr Val Arg Ser Lys
      35      40      45
Asp Phe Arg Asp Tyr Leu Met Ser Thr His Phe Trp Gly Pro Val Ala
      50      55      60
Asn Trp Gly Leu Pro Ile Ala Ala Ile Asn Asp Met Lys Lys Ser Pro
      65      70      75      80
Glu Ile Ile Ser Gly Arg Met Thr Phe Ala Leu Cys Cys Tyr Ser Leu
      85      90      95
Thr Phe Met Arg Phe Ala Tyr Lys Val Gln Pro Arg Asn Trp Leu Leu
      100      105      110
Phe Ala Cys His Ala Thr Asn Glu Val Ala Gln Leu Ile Gln Gly Gly
      115      120      125
Arg Leu Ile Lys His Glu Met Thr Lys Thr Ala Ser Ala
      130      135      140      141

```

<210> 1306
 <211> 386
 <212> Amino acid
 <213> Homo sapiens

```

      <400> 1306
Leu Gly Ser Arg Gln Ala Ala Gly Thr Met Arg Gly Gln Arg Ser Leu
  1      5      10      15
Leu Leu Gly Pro Ala Arg Leu Cys Leu Arg Leu Leu Leu Leu Gly
      20      25      30
Tyr Arg Arg Arg Cys Pro Pro Leu Leu Arg Gly Leu Val Gln Arg Trp
      35      40      45
Arg Tyr Gly Lys Val Cys Leu Arg Ser Leu Leu Tyr Asn Ser Phe Gly

```

```

      50      55      60
Gly Ser Asp Thr Ala Val Asp Ala Ala Phe Glu Pro Val Tyr Trp Leu
65      70      75      80
Val Asp Asn Val Ile Arg Trp Phe Gly Val Val Phe Val Val Leu Val
      85      90      95
Ile Val Leu Thr Gly Ser Ile Val Ala Ile Ala Tyr Leu Cys Val Leu
100      105      110
Pro Leu Ile Leu Arg Thr Tyr Ser Val Pro Arg Leu Cys Trp His Phe
115      120      125
Phe Tyr Ser His Trp Asn Leu Ile Leu Ile Val Phe His Tyr Tyr Gln
130      135      140
Ala Ile Thr Thr Pro Pro Gly Tyr Pro Pro Gln Gly Arg Asn Asp Ile
145      150      155      160
Ala Thr Val Ser Ile Cys Lys Lys Cys Ile Tyr Pro Lys Pro Ala Arg
      165      170      175
Thr His His Cys Ser Ile Cys Asn Arg Cys Val Leu Lys Met Asp His
180      185      190
His Cys Pro Trp Leu Asn Asn Cys Val Gly His Tyr Asn His Arg Tyr
195      200      205
Phe Phe Ser Phe Cys Phe Phe Met Thr Leu Gly Cys Val Tyr Cys Ser
210      215      220
Tyr Gly Ser Trp Asp Leu Phe Arg Glu Ala Tyr Ala Ala Ile Glu Lys
225      230      235      240
Met Lys Gln Leu Asp Lys Asn Lys Leu Gln Ala Val Ala Asn Gln Thr
      245      250      255
Tyr His Gln Thr Pro Pro Pro Thr Phe Ser Phe Arg Glu Arg Met Thr
260      265      270
His Lys Ser Leu Val Tyr Leu Trp Phe Leu Cys Ser Ser Val Ala Leu
275      280      285
Ala Leu Gly Ala Leu Thr Val Trp His Ala Val Leu Ile Ser Arg Gly
290      295      300
Glu Thr Ser Ile Glu Arg His Ile Asn Lys Lys Glu Arg Arg Arg Leu
305      310      315      320
Gln Ala Lys Gly Arg Val Phe Arg Asn Pro Tyr Asn Tyr Gly Cys Leu
      325      330      335
Asp Asn Trp Lys Val Phe Leu Gly Val Asp Thr Gly Arg His Trp Leu
340      345      350
Thr Arg Val Leu Leu Pro Ser Ser His Leu Pro His Gly Asn Gly Met
355      360      365
Ser Trp Glu Pro Pro Pro Trp Val Thr Ala His Ser Ala Ser Val Met
370      375      380
Ala Val
385 386

```

<210> 1307

<211> 298

<212>Amino acid

<213> Homo sapiens

<400> 1307

```

Ala Thr Arg Arg Arg Ala Ala Glu Ala Gly Met Ala Ala Val Leu Gln
1      5      10      15
Arg Val Glu Arg Leu Ser Asn Arg Val Val Arg Val Leu Gly Cys Asn
20      25      30
Pro Gly Pro Met Thr Leu Gln Gly Thr Asn Thr Tyr Leu Val Gly Thr
35      40      45
Gly Pro Arg Arg Ile Leu Ile Asp Thr Gly Glu Pro Ala Ile Pro Glu
50      55      60
Tyr Ile Ser Cys Leu Lys Gln Ala Leu Thr Glu Phe Asn Thr Ala Ile

```

```

65          70          75          80
Gln Glu Ile Val Val Thr His Trp His Arg Asp His Ser Gly Gly Ile
      85          90          95
Gly Asp Ile Cys Lys Ser Ile Asn Asn Asp Thr Thr Tyr Cys Ile Lys
      100          105          110
Lys Leu Pro Arg Asn Pro Gln Arg Glu Glu Ile Ile Gly Asn Gly Glu
      115          120          125
Gln Gln Tyr Val Tyr Leu Lys Asp Gly Asp Val Ile Lys Thr Glu Gly
      130          135          140
Ala Thr Leu Arg Val Leu Tyr Thr Pro Gly His Thr Asp Asp His Met
      145          150          155
Ala Leu Leu Leu Glu Glu Asn Ala Ile Phe Ser Gly Asp Cys Ile
      165          170          175
Leu Gly Glu Gly Thr Thr Val Phe Glu Asp Leu Tyr Asp Tyr Met Asn
      180          185          190
Ser Leu Lys Glu Leu Leu Lys Ile Lys Ala Asp Ile Ile Tyr Pro Gly
      195          200          205
His Gly Pro Val Ile His Asn Ala Glu Ala Lys Ile Gln Gln Tyr Ile
      210          215          220
Ser His Arg Asn Ile Arg Glu Gln Gln Ile Leu Thr Leu Phe Arg Glu
      225          230          235
Asn Phe Glu Lys Ser Phe Thr Val Met Glu Leu Val Lys Ile Ile Tyr
      245          250          255
Lys Asn Thr Pro Glu Asn Leu His Glu Met Ala Lys His Asn Leu Leu
      260          265          270
Leu His Leu Lys Lys Leu Glu Lys Glu Gly Lys Ile Phe Ser Asn Thr
      275          280          285
Asp Pro Asp Lys Lys Trp Lys Ala His Leu
      290          295          298

```

<210> 1308
 <211> 306
 <212> Amino acid
 <213> Homo sapiens

```

<400> 1308
Glu Leu His Arg Ala Gly Gln Val Ala Gly Gly Ala Arg Arg Ser Arg
1          5          10          15
Arg Glu Ser Met Glu Leu Glu Arg Ile Val Ser Ala Ala Leu Leu Ala
      20          25          30
Phe Val Gln Thr His Leu Pro Glu Ala Asp Leu Ser Gly Leu Asp Glu
      35          40          45
Val Ile Phe Ser Tyr Val Leu Gly Val Leu Glu Asp Leu Gly Pro Ser
      50          55          60
Gly Pro Ser Glu Glu Asn Phe Asp Met Glu Ala Phe Thr Glu Met Met
      65          70          75          80
Glu Ala Tyr Val Pro Gly Phe Ala His Ile Pro Arg Gly Thr Ile Gly
      85          90          95
Asp Met Met Gln Lys Leu Ser Gly Gln Leu Ser Asp Ala Arg Asn Lys
      100          105          110
Glu Asn Leu Gln Pro Gln Ser Ser Gly Val Gln Gly Gln Val Pro Ile
      115          120          125
Ser Pro Glu Pro Leu Gln Arg Pro Glu Met Leu Lys Glu Glu Thr Arg
      130          135          140
Ser Ser Ala Ala Ala Ala Ala Asp Thr Gln Asp Glu Ala Thr Gly Ala
      145          150          155          160
Glu Glu Glu Leu Leu Pro Gly Val Asp Val Leu Leu Glu Val Phe Pro
      165          170          175
Thr Cys Ser Val Glu Gln Ala Gln Trp Val Leu Ala Lys Ala Arg Gly

```

```

      180      185      190
Asp Leu Glu Glu Ala Val Gln Met Leu Val Glu Gly Lys Glu Glu Gly
      195      200      205
Pro Ala Ala Trp Glu Gly Pro Asn Gln Asp Leu Pro Arg Arg Leu Arg
      210      215      220
Gly Pro Gln Lys Asp Glu Leu Lys Ser Phe Ile Leu Gln Lys Tyr Met
      225      230      235      240
Met Val Asp Ser Ala Glu Asp Gln Lys Ile His Arg Pro Met Ala Pro
      245      250      255
Lys Glu Ala Pro Lys Lys Leu Ile Arg Tyr Ile Asp Asn Gln Val Val
      260      265      270
Ser Thr Lys Gly Glu Arg Phe Lys Asp Val Arg Asn Pro Glu Ala Glu
      275      280      285
Glu Met Lys Ala Thr Tyr Ile Asn Leu Lys Pro Ala Arg Lys Tyr Arg
      290      295      300
Phe His
305 306

```

```

<210> 1309
<211> 174
<212>Amino acid
<213> Homo sapiens

```

```

      <400> 1309
Phe Ile Thr Gly Lys Gly Ile Val Ala Ile Leu Arg Cys Leu Gln Phe
      1      5      10      15
Asn Glu Thr Leu Thr Glu Leu Arg Phe His Asn Gln Arg His Met Leu
      20      25      30
Gly His His Ala Glu Met Glu Ile Ala Arg Leu Leu Lys Ala Asn Asn
      35      40      45
Thr Leu Leu Lys Met Gly Tyr His Phe Glu Leu Pro Gly Pro Arg Met
      50      55      60
Val Val Thr Asn Leu Leu Thr Arg Asn Gln Asp Lys Gln Arg Gln Lys
      65      70      75      80
Arg Gln Glu Glu Gln Lys Gln Gln Gln Leu Lys Glu Gln Lys Lys Leu
      85      90      95
Ile Ala Met Leu Glu Asn Gly Leu Gly Leu Pro Pro Gly Met Trp Glu
      100      105      110
Leu Leu Gly Gly Pro Lys Pro Asp Ser Arg Met Gln Glu Phe Phe Gln
      115      120      125
Pro Pro Pro Pro Arg Pro Pro Asn Pro Gln Asn Val Pro Phe Ser Gln
      130      135      140
Arg Ser Glu Met Met Lys Lys Pro Ser Gln Ala Pro Lys Tyr Arg Thr
      145      150      155      160
Asp Pro Asp Ser Phe Arg Val Val Lys Leu Lys Arg Ile Gln
      165      170      174

```

```

<210> 1310
<211> 616
<212>Amino acid
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(616)
<223> X = any amino acid or stop code

```

<400> 1310

Gly	Gly	Arg	Ala	Gly	Thr	Gln	Cys	Cys	Trp	Arg	Ala	Gly	Ala	Arg	Leu
1				5					10					15	
Arg	Gly	Ile	Ser	Pro	Ser	Pro	Ala	Leu	Pro	Glu	Ala	Pro	Gly	Leu	Cys
		20						25					30		
Arg	Val	Arg	Ala	Gly	Leu	Gly	Ala	Gly	Ala	Leu	Gly	Arg	Ser	Pro	Ala
		35					40					45			
Gly	Arg	Arg	Arg	Arg	Gly	Pro	Arg	Val	Ser	Ser	Ser	Pro	Ala	Pro	His
	50					55					60				
Pro	Arg	Arg	Val	Leu	Cys	Arg	Cys	Leu	Leu	Phe	Leu	Phe	Phe	Ser	Cys
	65				70					75				80	
His	Asp	Arg	Arg	Gly	Asp	Ser	Gln	Pro	Tyr	Gln	Ala	Leu	Lys	Tyr	Ser
			85					90						95	
Ser	Lys	Ser	His	Pro	Ser	Ser	Gly	Asp	His	Arg	His	Glu	Lys	Met	Arg
			100					105					110		
Asp	Ala	Gly	Asp	Pro	Ser	Pro	Pro	Asn	Lys	Met	Leu	Arg	Arg	Ser	Asp
		115					120					125			
Ser	Pro	Glu	Asn	Lys	Tyr	Ser	Asp	Ser	Thr	Gly	His	Ser	Lys	Ala	Lys
	130					135					140				
Asn	Val	His	Thr	His	Arg	Val	Arg	Glu	Arg	Asp	Gly	Gly	Thr	Ser	Tyr
	145				150					155				160	
Ser	Pro	Gln	Glu	Asn	Ser	His	Asn	His	Ser	Ala	Leu	His	Ser	Ser	Asn
			165					170					175		
Phe	Thr	Phe	Phe	Leu	Ile	Pro	Ser	Asn	Xaa	Pro	Gln	Gly	Lys	Thr	Phe
		180						185					190		
Arg	Ile	Ala	Pro	Tyr	Asp	Ser	Ala	Asp	Asp	Trp	Ser	Leu	Glu	His	Ile
	195					200						205			
Ser	Ser	Ser	Gly	Glu	Lys	Tyr	Tyr	Tyr	Asn	Cys	Arg	Thr	Glu	Val	Ser
	210				215						220				
Gln	Trp	Gly	Lys	Thr	Pro	Lys	Ser	Gly	Leu	Glu	Arg	Gly	Gln	Arg	Gln
	225				230				235					240	
Lys	Glu	Ala	Asn	Lys	Met	Ala	Val	Asn	Ser	Phe	Pro	Lys	Asp	Arg	Asp
			245					250					255		
Tyr	Arg	Arg	Glu	Val	Met	Gln	Ala	Thr	Ala	Thr	Ser	Gly	Phe	Ala	Ser
		260						265					270		
Gly	Lys	Ser	Thr	Ser	Gly	Asp	Lys	Pro	Val	Ser	His	Ser	Cys	Thr	Thr
	275					280					285				
Pro	Ser	Thr	Ser	Ser	Ala	Ser	Gly	Leu	Asn	Pro	Thr	Ser	Ala	Pro	Pro
	290				295						300				
Thr	Ser	Ala	Ser	Ala	Val	Pro	Val	Ser	Pro	Val	Pro	Gln	Ser	Pro	Ile
	305				310					315				320	
Pro	Pro	Leu	Leu	Gln	Asp	Pro	Asn	Leu	Leu	Arg	Gln	Leu	Leu	Pro	Ala
			325					330					335		
Leu	Glu	Ala	Thr	Leu	Gln	Leu	Asn	Asn	Ser	Asn	Val	Asp	Ile	Ser	Ile
		340					345					350			
Ile	Asn	Glu	Val	Leu	Thr	Gly	Asp	Val	Thr	Gln	Ala	Ser	Leu	Gln	Thr
	355					360					365				
Ile	Ile	His	Lys	Cys	Leu	Thr	Ala	Gly	Pro	Ser	Val	Phe	Lys	Ile	Thr
	370				375					380					
Ser	Leu	Ile	Ser	Gln	Ala	Gln	Leu	Ser	Thr	Gln	Ala	Gln	Ala	Ser	
	385			390					395					400	
Asn	Gln	Ser	Pro	Met	Ser	Leu	Thr	Ser	Asp	Ala	Ser	Ser	Pro	Arg	Ser
			405					410					415		
Tyr	Val	Ser	Pro	Arg	Asn	Lys	Ala	His	Leu	Lys	Leu	Asn	Thr	Val	Pro
			420				425					430			
Ile	Gln	Thr	Phe	Gly	Phe	Ser	Thr	Pro	Pro	Val	Ser	Ser	Gln	Pro	Lys
	435					440					445				
Val	Ser	Thr	Pro	Val	Val	Lys	Gln	Gly	Pro	Val	Ser	Gln	Ser	Ala	Thr
	450					455				460					
Gln	Gln	Pro	Val	Thr	Ala	Asp	Lys	Gln	Gln	Gly	His	Glu	Pro	Val	Ser
	465				470				475					480	

```
<210> 1311
<211> 387
<212> Amino acid
<213> Homo sapiens
```

813

```

Asp Pro Ser Thr Lys Lys Gln His Thr Ile Trp Pro Ser Pro His Gln
    275          280          285
Gly Asn Ser Pro Asp Leu Glu Val Tyr Asn Val Ile Arg Lys Gln Ser
    290          295          300
Glu Ala Asp Leu Ala Glu Thr Arg Pro Asp Leu Lys Asn Ile Ser Phe
    305          310          315          320
Arg Val Cys Ser Gly Glu Ala Thr Pro Asp Asp Met Ser Cys Asp Tyr
    325          330          335
Asp Asn Met Ala Val Asn Pro Ser Glu Ser Gly Phe Val Thr Leu Val
    340          345          350
Ser Val Glu Ser Gly Phe Val Thr Asn Asp Ile Tyr Glu Phe Ser Pro
    355          360          365
Asp Gln Met Gly Arg Ser Lys Glu Ser Gly Trp Val Glu Asn Glu Ile
    370          375          380
Tyr Gly Tyr
    385          387

```

```

<210> 1312
<211> 470
<212>Amino acid
<213> Homo sapiens

```

```

<400> 1312
Thr Glu Trp Gly Leu Ser Gly Ser Cys Pro Gly Cys Ser Pro Leu Glu
  1          5          10          15
Pro Gly Ser Arg Gly Arg Gly Ala Ala Trp Arg Ile Leu Arg Cys
    20          25          30
Arg Arg Leu Pro Glu Pro Ser Pro Phe Leu Thr Gln Pro Asn Leu Ala
    35          40          45
Gln Ser Gln Pro Pro Ala Pro Val Pro Val Thr Asp Pro Ser Val Thr
    50          55          60
Met His Pro Ala Val Phe Leu Ser Leu Pro Asp Leu Arg Cys Ser Leu
    65          70          75          80
Leu Leu Leu Val Thr Trp Val Phe Thr Pro Val Thr Thr Glu Ile Thr
    85          90          95
Ser Leu Asp Thr Glu Asn Ile Asp Glu Ile Leu Asn Asn Ala Asp Val
    100          105          110
Ala Leu Val Asn Phe Tyr Ala Asp Trp Cys Arg Phe Ser Gln Met Leu
    115          120          125
His Pro Ile Phe Glu Glu Ala Ser Asp Val Ile Lys Glu Glu Phe Pro
    130          135          140
Asn Glu Asn Gln Val Val Phe Ala Arg Val Asp Cys Asp Gln His Ser
    145          150          155          160
Asp Ile Ala Gln Arg Tyr Arg Ile Ser Lys Tyr Pro Thr Leu Lys Leu
    165          170          175
Phe Arg Asn Gly Met Met Met Lys Arg Glu Tyr Arg Gly Gln Arg Ser
    180          185          190
Val Lys Ala Leu Ala Asp Tyr Ile Arg Gln Gln Lys Ser Asp Pro Ile
    195          200          205
Gln Glu Ile Arg Asp Leu Ala Glu Ile Thr Thr Leu Asp Arg Ser Lys
    210          215          220
Arg Asn Ile Ile Gly Tyr Phe Glu Gln Lys Asp Ser Asp Asn Tyr Arg
    225          230          235          240
Val Phe Glu Arg Val Ala Asn Ile Leu His Asp Asp Cys Ala Phe Leu
    245          250          255
Ser Ala Phe Gly Asp Val Ser Lys Pro Glu Arg Tyr Ser Gly Asp Asn
    260          265          270
Ile Ile Tyr Lys Pro Pro Gly His Ser Ala Pro Asp Met Val Tyr Leu
    275          280          285

```

Gly Ala Met Thr Asn Phe Asp Val Thr Tyr Asn Trp Ile Gln Asp Lys
 290 295 300
 Cys Val Pro Leu Val Arg Glu Ile Thr Phe Glu Asn Gly Glu Glu Leu
 305 310 315 320
 Thr Glu Glu Gly Leu Pro Phe Leu Ile Leu Phe His Met Lys Glu Asp
 325 330 335
 Thr Glu Ser Leu Glu Ile Phe Gln Asn Glu Val Ala Arg Gln Leu Ile
 340 345 350
 Ser Glu Lys Gly Thr Ile Asn Phe Leu His Ala Asp Cys Asp Lys Phe
 355 360 365
 Arg His Pro Leu Leu His Ile Gln Lys Thr Pro Ala Asp Cys Pro Val
 370 375 380
 Ile Ala Ile Asp Ser Phe Arg His Met Tyr Val Phe Gly Asp Phe Lys
 385 390 395 400
 Asp Val Leu Ile Pro Gly Lys Leu Lys Gln Phe Val Phe Asp Leu His
 405 410 415
 Ser Gly Lys Leu His Arg Glu Phe His His Gly Pro Asp Pro Thr Asp
 420 425 430
 Thr Ala Pro Gly Glu Gln Ala Gln Asp Val Ala Ser Ser Pro Pro Glu
 435 440 445
 Ser Ser Phe Gln Lys Leu Ala Pro Ser Glu Tyr Arg Tyr Thr Leu Leu
 450 455 460
 Arg Asp Arg Asp Glu Leu
 465 470

<210> 1313
 <211> 262
 <212> Amino acid
 <213> Homo sapiens

<400> 1313
 Leu Thr Pro Ser Val Gly Pro Val Phe Pro Gly Arg Pro Thr Arg Pro
 1 5 10 15
 Leu Ala Ser Pro Phe Pro Val Pro Leu His Arg Cys Ser Ala Gly Ser
 20 25 30
 Gln Pro Pro Gly Pro Val Pro Glu Gly Leu Ile Arg Ile Tyr Ser Met
 35 40 45
 Arg Phe Cys Pro Tyr Ser His Arg Thr Arg Leu Val Leu Lys Ala Lys
 50 55 60
 Asp Ile Arg His Glu Val Val Asn Ile Asn Leu Arg Asn Lys Pro Glu
 65 70 75 80
 Trp Tyr Tyr Thr Lys His Pro Phe Gly His Ile Pro Val Leu Glu Thr
 85 90 95
 Ser Gln Cys Gln Leu Ile Tyr Glu Ser Val Ile Ala Cys Glu Tyr Leu
 100 105 110
 Asp Asp Ala Tyr Pro Gly Arg Lys Leu Phe Pro Tyr Asp Pro Tyr Glu
 115 120 125
 Arg Ala Arg Gln Lys Met Leu Leu Glu Leu Phe Cys Lys Val Pro His
 130 135 140
 Leu Thr Lys Glu Cys Leu Val Ala Leu Arg Cys Gly Arg Glu Cys Thr
 145 150 155 160
 Asn Leu Lys Ala Ala Leu Arg Gln Glu Phe Ser Asn Leu Glu Glu Ile
 165 170 175
 Leu Glu Tyr Gln Asn Thr Thr Phe Phe Gly Gly Thr Cys Ile Ser Met
 180 185 190
 Ile Asp Tyr Leu Leu Trp Pro Trp Phe Glu Arg Leu Asp Val Tyr Gly
 195 200 205
 Ile Leu Asp Cys Val Ser His Thr Pro Ala Leu Arg Leu Trp Ile Ser
 210 215 220

Ala Met Lys Trp Asp Pro Thr Val Cys Ala Leu Leu Met Asp Lys Ser
 225 230 235 240
 Ile Phe Gln Gly Phe Leu Asn Leu Tyr Phe Gln Asn Asn Pro Asn Ala
 245 250 255
 Phe Asp Phe Gly Leu Cys
 260 262

<210> 1314
 <211> 173
 <212> Amino acid
 <213> Homo sapiens

<400> 1314
 Asn Thr Ala Thr Asn Met Thr Gln Pro Asn Ala Gly Thr Arg Lys Tyr
 1 5 10 15
 Ser Val Pro Ala Ile Ser Val His Thr Ser Ser Ser Ser Phe Ala Tyr
 20 25 30
 Asp Arg Glu Phe Leu Arg Thr Leu Pro Gly Phe Leu Ile Val Ala Glu
 35 40 45
 Ile Val Leu Gly Leu Leu Val Trp Thr Leu Ile Ala Gly Thr Glu Tyr
 50 55 60
 Phe Arg Val Pro Ala Phe Gly Trp Val Met Phe Val Ala Val Phe Tyr
 65 70 75 80
 Trp Val Leu Thr Val Phe Phe Leu Ile Ile Tyr Ile Thr Met Thr Tyr
 85 90 95
 Thr Arg Ile Pro Gln Val Pro Trp Thr Thr Val Gly Leu Cys Phe Asn
 100 105 110
 Gly Ser Ala Phe Val Leu Tyr Leu Ser Ala Ala Val Val Asp Ala Ser
 115 120 125
 Ser Val Ser Pro Glu Arg Asp Ser His Asn Phe Asn Ser Trp Ala Ala
 130 135 140
 Ser Ser Phe Phe Ala Phe Leu Val Thr Ile Cys Tyr Ala Gly Asn Thr
 145 150 155 160
 Tyr Phe Ser Phe Ile Ala Trp Arg Ser Arg Thr Ile Gln
 165 170 173

<210> 1315
 <211> 259
 <212> Amino acid
 <213> Homo sapiens

<400> 1315
 Gly Leu Arg Asp Pro Phe Arg Arg Lys Arg Arg Leu Lys Pro Gln Val
 1 5 10 15
 Lys Met Ser Asn Tyr Val Asn Asp Met Trp Pro Gly Ser Pro Gln Glu
 20 25 30
 Lys Asp Ser Pro Ser Thr Ser Arg Ser Gly Gly Ser Ser Arg Leu Ser
 35 40 45
 Ser Arg Ser Arg Ser Arg Ser Phe Ser Arg Ser Ser Arg Ser His Ser
 50 55 60
 Arg Val Ser Ser Arg Phe Ser Ser Arg Ser Arg Arg Ser Lys Ser Arg
 65 70 75 80
 Ser Arg Ser Arg Arg Arg His Gln Arg Lys Tyr Arg Arg Tyr Ser Arg
 85 90 95

```

Ser Tyr Ser Arg Ser Arg Ser Arg Ser Arg Ser Arg Arg Tyr Arg Glu
      100      105      110
Arg Arg Tyr Gly Phe Thr Arg Arg Tyr Tyr Arg Ser Pro Ser Arg Tyr
      115      120      125
Arg Ser Arg Ser Arg Ser Arg Ser Arg Ser Arg Gly Arg Ser Tyr Cys
      130      135      140
Gly Arg Ala Tyr Ala Ile Ala Arg Gly Gln Arg Tyr Tyr Gly Phe Gly
      145      150      155      160
Arg Thr Val Tyr Pro Glu Glu His Ser Arg Trp Arg Asp Arg Ser Arg
      165      170      175
Thr Arg Ser Arg Ser Arg Thr Pro Phe Arg Leu Ser Glu Lys Asp Arg
      180      185      190
Met Glu Leu Leu Glu Ile Ala Lys Thr Asn Ala Ala Lys Ala Leu Gly
      195      200      205
Thr Thr Asn Ile Asp Leu Pro Ala Ser Leu Arg Thr Val Pro Ser Ala
      210      215      220
Lys Glu Thr Ser Arg Gly Ile Gly Val Ser Ser Asn Gly Ala Lys Pro
      225      230      235      240
Glu Val Ser Ile Leu Gly Leu Ser Glu Gln Asn Phe Gln Lys Ala Asn
      245      250      255
Cys Gln Ile
      259

```

```

<210> 1316
<211> 678
<212> Amino acid
<213> Homo sapiens

```

```

<400> 1316
Ala Glu Gly Ser Thr Met Asp Leu Thr Lys Met Gly Met Ile Gln Leu
  1      5      10      15
Gln Asn Pro Asn His Pro Thr Gly Leu Leu Cys Lys Ala Asn Gln Met
      20      25      30
Arg Leu Ala Gly Thr Leu Cys Asp Val Val Ile Met Val Asp Ser Gln
      35      40      45
Glu Phe His Ala His Arg Thr Val Leu Ala Cys Thr Ser Lys Met Phe
      50      55      60
Glu Ile Leu Phe His Arg Asn Ser Gln His Tyr Thr Leu Asp Phe Leu
      65      70      75      80
Ser Pro Lys Thr Phe Gln Gln Ile Leu Glu Tyr Ala Tyr Thr Ala Thr
      85      90      95
Leu Gln Ala Lys Ala Glu Asp Leu Asp Asp Leu Leu Tyr Ala Ala Glu
      100      105      110
Ile Leu Glu Ile Glu Tyr Leu Glu Glu Gln Cys Leu Lys Met Leu Glu
      115      120      125
Thr Ile Gln Ala Ser Asp Asp Asn Asp Thr Glu Ala Thr Met Ala Asp
      130      135      140
Gly Gly Ala Glu Glu Lys Lys Asp Arg Lys Ala Arg Tyr Leu Lys Asn
      145      150      155      160
Ile Phe Ile Ser Lys His Ser Ser Glu Glu Ser Gly Tyr Ala Ser Val
      165      170      175
Ala Gly Gln Ser Leu Pro Gly Pro Met Val Asp Gln Ser Pro Ser Val
      180      185      190
Ser Thr Ser Phe Gly Leu Ser Ala Met Ser Pro Thr Lys Ala Ala Val
      195      200      205
Asp Ser Leu Met Thr Ile Gly Gln Ser Leu Leu Gln Gly Thr Leu Gln
      210      215      220
Pro Pro Ala Gly Pro Glu Glu Pro Thr Leu Ala Gly Gly Gly Arg His
      225      230      235      240

```

Pro Gly Val Ala Glu Val Lys Thr Glu Met Met Gln Val Asp Glu Val
 245 250 255
 Pro Ser Gln Asp Ser Pro Gly Ala Ala Glu Ser Ser Ile Ser Gly Gly
 260 265 270
 Met Gly Asp Lys Val Glu Glu Arg Gly Lys Glu Gly Pro Gly Thr Pro
 275 280 285
 Thr Arg Ser Ser Val Ile Thr Ser Ala Arg Glu Leu His Tyr Gly Arg
 290 295 300
 Glu Glu Ser Ala Glu Gln Val Pro Pro Pro Ala Glu Ala Gly Gln Ala
 305 310 315 320
 Pro Thr Gly Arg Pro Glu His Pro Ala Pro Pro Glu Lys His Leu
 325 330 335
 Gly Ile Tyr Ser Val Leu Pro Asn His Lys Ala Asp Ala Val Leu Ser
 340 345 350
 Met Pro Ser Ser Val Thr Ser Gly Leu His Val Gln Pro Ala Leu Ala
 355 360 365
 Val Ser Met Asp Phe Ser Thr Tyr Gly Gly Leu Leu Pro Gln Gly Phe
 370 375 380
 Ile Gln Arg Glu Leu Phe Ser Lys Leu Gly Glu Leu Ala Val Gly Met
 385 390 395 400
 Lys Ser Glu Ser Arg Thr Ile Gly Glu Gln Cys Ser Val Cys Gly Val
 405 410 415
 Glu Leu Pro Asp Asn Glu Ala Val Glu Gln His Arg Lys Leu His Ser
 420 425 430
 Gly Met Lys Thr Tyr Gly Cys Glu Leu Cys Gly Lys Arg Phe Leu Asp
 435 440 445
 Ser Leu Arg Leu Arg Met His Leu Leu Ala His Ser Ala Gly Ala Lys
 450 455 460
 Ala Phe Val Cys Asp Gln Cys Gly Ala Gln Phe Ser Lys Glu Asp Ala
 465 470 475 480
 Leu Glu Thr His Arg Gln Thr His Thr Gly Thr Asp Met Ala Val Phe
 485 490 495
 Cys Leu Leu Cys Gly Lys Arg Phe Gln Ala Gln Ser Ala Leu Gln Gln
 500 505 510
 His Met Glu Val His Ala Gly Val Arg Ser Tyr Ile Cys Ser Glu Cys
 515 520 525
 Asn Arg Thr Phe Pro Ser His Thr Ala Leu Lys Arg His Leu Arg Ser
 530 535 540
 His Thr Gly Asp His Pro Tyr Glu Cys Glu Phe Cys Gly Ser Cys Phe
 545 550 555 560
 Arg Asp Glu Ser Thr Leu Lys Ser His Lys Arg Ile His Thr Gly Glu
 565 570 575
 Lys Pro Tyr Glu Cys Asn Gly Cys Gly Lys Lys Phe Ser Leu Lys His
 580 585 590
 Gln Leu Glu Thr His Tyr Arg Val His Thr Gly Glu Lys Pro Phe Glu
 595 600 605
 Cys Lys Leu Cys His Gln Arg Ser Arg Asp Tyr Ser Ala Met Ile Lys
 610 615 620
 His Leu Arg Thr His Asn Gly Ala Ser Pro Tyr Gln Cys Thr Ile Cys
 625 630 635 640
 Thr Glu Tyr Cys Pro Ser Leu Ser Ser Met Gln Lys His Met Lys Gly
 645 650 655
 His Lys Pro Glu Glu Ile Pro Pro Asp Trp Arg Ile Glu Lys Thr Tyr
 660 665 670
 Leu Tyr Leu Cys Tyr Val
 675 678

<210> 1317

<211> 74

<212> Amino acid

<213> Homo sapiens

<400> 1317

```

Ile Trp Glu Ala Pro Thr Leu Ile Phe Thr Leu Ala Gly Gly Arg Ala
 1           5           10           15
Leu Gly His Pro Pro Met Gln Lys Gly Ser Gln Gly Cys Ala Leu Pro
           20           25           30
His Pro Leu Pro Gly Ala Ser Leu Pro Ala Gln Pro Gly Pro Ala Asp
           35           40           45
His Arg Gly Trp Glu Cys Arg Ile Gly Gly Glu Ala Ser Val Phe Thr
           50           55           60
His Leu Phe Cys Leu Pro His Ser Pro Thr
           65           70           74

```

<210> 1318

<211> 351

<212> Amino acid

<213> Homo sapiens

<400> 1318

```

Ala Ser Gly Ser Pro Ala Pro Ser Ser Ser Ser Ala Met Ala Ala Ala
 1           5           10           15
Cys Gly Pro Gly Ala Ala Gly Tyr Cys Leu Leu Leu Gly Leu His Leu
           20           25           30
Phe Leu Leu Thr Ala Gly Pro Ala Leu Gly Trp Asn Asp Pro Asp Arg
           35           40           45
Met Leu Leu Arg Asp Val Lys Ala Leu Thr Leu His Tyr Asp Arg Tyr
           50           55           60
Thr Thr Ser Arg Arg Leu Asp Pro Ile Pro Gln Leu Lys Cys Val Gly
           65           70           75           80
Gly Thr Ala Gly Cys Asp Ser Tyr Thr Pro Lys Val Ile Gln Cys Gln
           85           90           95
Asn Lys Gly Trp Asp Gly Tyr Asp Val Gln Trp Glu Cys Lys Thr Asp
           100          105          110
Leu Asp Ile Ala Tyr Lys Phe Gly Lys Thr Val Val Ser Cys Glu Gly
           115          120          125
Tyr Glu Ser Ser Glu Asp Gln Tyr Val Leu Arg Gly Ser Cys Gly Leu
           130          135          140
Glu Tyr Asn Leu Asp Tyr Thr Glu Leu Gly Leu Gln Lys Leu Lys Glu
           145          150          155          160
Ser Gly Lys Gln His Gly Phe Ala Ser Phe Ser Asp Tyr Tyr Tyr Lys
           165          170          175
Trp Ser Ser Ala Asp Ser Cys Asn Met Ser Gly Leu Ile Thr Ile Val
           180          185          190
Val Leu Leu Gly Ile Ala Phe Val Val Tyr Lys Leu Phe Leu Ser Asp
           195          200          205
Gly Gln Tyr Ser Pro Pro Pro Tyr Ser Glu Tyr Pro Pro Phe Ser His
           210          215          220
Arg Tyr Gln Arg Phe Thr Asn Ser Ala Gly Pro Pro Pro Pro Gly Phe
           225          230          235          240
Lys Ser Glu Phe Thr Gly Pro Gln Asn Thr Gly His Gly Ala Thr Ser
           245          250          255
Gly Phe Gly Ser Ala Phe Thr Gly Gln Gln Gly Tyr Glu Asn Ser Gly
           260          265          270
Pro Gly Phe Trp Thr Gly Leu Gly Thr Gly Gly Ile Leu Gly Tyr Leu
           275          280          285
Phe Gly Ser Asn Arg Ala Ala Thr Pro Phe Ser Asp Ser Trp Tyr Tyr
           290          295          300

```

Pro Ser Tyr Pro Pro Ser Tyr Pro Gly Thr Trp Asn Arg Ala Tyr Ser
 305 310 315 320
 Pro Leu His Gly Gly Ser Gly Ser Tyr Ser Val Cys Ser Asn Ser Asp
 325 330 335
 Thr Lys Thr Arg Thr Ala Ser Gly Tyr Gly Gly Thr Arg Arg Arg
 340 345 350 351

<210> 1319
 <211> 310
 <212> Amino acid
 <213> Homo sapiens

<400> 1319
 Gly Arg Cys Gly Ala Met Ala Ala Gly Leu Ala Arg Leu Leu Leu Leu
 1 5 10 15
 Leu Gly Leu Ser Ala Gly Gly Pro Ala Pro Ala Gly Ala Ala Lys Met
 20 25 30
 Lys Val Val Glu Glu Pro Asn Ala Phe Gly Val Asn Asn Pro Phe Leu
 35 40 45
 Pro Gln Ala Ser Arg Leu Gln Ala Lys Arg Asp Pro Ser Pro Val Ser
 50 55 60
 Gly Pro Val His Leu Phe Arg Leu Ser Gly Lys Cys Phe Ser Leu Val
 65 70 75 80
 Glu Ser Thr Tyr Lys Tyr Glu Phe Cys Pro Phe His Asn Val Thr Gln
 85 90 95
 His Glu Gln Thr Phe Arg Trp Asn Ala Tyr Ser Gly Ile Leu Gly Ile
 100 105 110
 Trp His Glu Trp Glu Ile Ala Asn Asn Thr Phe Thr Gly Met Trp Met
 115 120 125
 Arg Asp Gly Asp Ala Cys Arg Ser Arg Ser Arg Gln Ser Lys Val Glu
 130 135 140
 Leu Ala Cys Gly Lys Ser Asn Arg Leu Ala His Val Ser Glu Pro Ser
 145 150 155 160
 Thr Cys Val Tyr Ala Leu Thr Phe Glu Thr Pro Leu Val Cys His Pro
 165 170 175
 His Ala Leu Leu Val Tyr Pro Thr Leu Pro Glu Ala Leu Gln Arg Gln
 180 185 190
 Trp Asp Gln Val Glu Gln Asp Leu Ala Asp Glu Leu Ile Thr Pro Gln
 195 200 205
 Gly His Glu Lys Leu Leu Arg Thr Leu Phe Glu Asp Ala Gly Tyr Leu
 210 215 220
 Lys Thr Pro Glu Glu Asn Glu Pro Thr Gln Leu Glu Gly Gly Pro Asp
 225 230 235 240
 Ser Leu Gly Phe Glu Thr Leu Glu Asn Cys Arg Lys Ala His Lys Glu
 245 250 255
 Leu Ser Lys Glu Ile Lys Arg Leu Lys Gly Leu Leu Thr Gln His Gly
 260 265 270
 Ile Pro Tyr Thr Arg Pro Thr Glu Thr Ser Asn Leu Glu His Leu Gly
 275 280 285
 His Glu Thr Pro Arg Ala Lys Ser Pro Glu Gln Leu Arg Gly Asp Pro
 290 295 300
 Gly Leu Arg Gly Ser Leu
 305 310

<210> 1320
 <211> 313
 <212> Amino acid
 <213> Homo sapiens

<400> 1320

Asn	Ser	Phe	Trp	Ser	Val	Leu	Phe	Leu	Val	Gln	Glu	Glu	Thr	Glu	Val
1				5					10					15	
Ala	Arg	Cys	Asn	Ala	Gln	His	Arg	Leu	Arg	Gln	Ser	Arg	Asp	Ser	Lys
		20						25					30		
Pro	Asp	Pro	Ser	Phe	Arg	Ser	Gln	Pro	Ile	Asp	Ser	Ser	Ile	Ser	Phe
		35					40					45			
Ala	Gly	Ser	Asp	Ile	Gln	Pro	Leu	Phe	Ser	Phe	Ala	Ser	Val	Asp	Gly
	50					55				60					
Thr	Gln	Val	Gly	Glu	Ala	Glu	Glu	Trp	Ala	Gly	Pro	Trp	Ala	Glu	Ala
	65				70					75				80	
Thr	Leu	Leu	Pro	Gly	Pro	Gly	Asn	Arg	Trp	Pro	Pro	Arg	Ala	Gly	Leu
				85					90					95	
Ser	Gly	Asn	Trp	Leu	Glu	Glu	Asp	Gly	Asp	Trp	Pro	Ser	Leu	Pro	Glu
		100						105				110			
Val	Val	Gly	Phe	Val	Ser	Glu	Arg	Glu	Leu	Phe	Arg	Asp	Ala	Leu	Gly
		115					120					125			
Ala	Gly	Cys	Arg	Ile	Leu	Leu	Ile	Cys	Glu	Met	Gln	Leu	Thr	His	Gln
	130				135						140				
Leu	Asp	Leu	Phe	Pro	Glu	Cys	Arg	Val	Thr	Leu	Leu	Leu	Phe	Lys	Asp
	145				150					155					160
Val	Lys	Asn	Ala	Gly	Asp	Leu	Arg	Arg	Lys	Ala	Met	Glu	Gly	Thr	Ile
			165						170					175	
Asp	Gly	Ser	Leu	Ile	Asn	Pro	Thr	Val	Ile	Val	Asp	Pro	Phe	Gln	Ile
			180					185					190		
Leu	Val	Ala	Ala	Asn	Lys	Ala	Val	His	Leu	Tyr	Lys	Leu	Gly	Lys	Met
	195					200					205				
Lys	Thr	Arg	Thr	Leu	Ser	Thr	Glu	Ile	Ile	Phe	Asn	Leu	Ser	Pro	Asn
	210					215					220				
Asn	Asn	Ile	Ser	Glu	Ala	Leu	Lys	Lys	Phe	Gly	Ile	Ser	Ala	Asn	Asp
	225				230					235					240
Thr	Ser	Ile	Leu	Ile	Val	Tyr	Ile	Glu	Glu	Gly	Glu	Lys	Gln	Ile	Asn
			245						250					255	
Gln	Glu	Tyr	Leu	Ile	Ser	Gln	Val	Glu	Gly	His	Gln	Val	Ser	Leu	Lys
		260						265					270		
Asn	Leu	Pro	Glu	Ile	Met	Asn	Ile	Thr	Glu	Val	Lys	Lys	Ile	Tyr	Lys
		275					280					285			
Leu	Ser	Ser	Gln	Glu	Glu	Ser	Ile	Gly	Thr	Leu	Leu	Asp	Ala	Ile	Ile
	290					295					300				
Cys	Arg	Met	Ser	Thr	Lys	Asp	Val	Leu							
	305				310			313							

<210> 1321

<211> 891

<212> Amino acid

<213> Homo sapiens

<400> 1321

Gln	Arg	Ser	Trp	Ala	Gly	Pro	Gly	Ala	Gly	Pro	Glu	Ala	Gly	Thr	Arg
1				5					10					15	
Pro	Pro	Ala	Arg	Gly	Arg	Arg	Arg	Gln	Pro	Gly	Asn	Val	Asp	Pro	Arg
		20						25					30		
Arg	Arg	Ala	Pro	Gln	Leu	Arg	Ser	Gln	Met	Gln	Val	Ala	Met	Ala	Arg
		35					40					45			

Ala Thr Thr Ala Thr Gly Asn Arg Leu Trp Pro Gly Leu Leu Ile Met
 50 55 60
 Leu Gly Ser Leu Cys His Arg Gly Ser Pro Cys Gly Leu Ser Thr His
 65 70 75 80
 Ile Glu Ile Gly His Arg Ala Leu Glu Phe Leu Gln Leu His Asn Gly
 85 90 95
 Arg Val Asn Tyr Arg Glu Leu Leu Leu Glu His Gln Asp Ala Tyr Gln
 100 105 110
 Ala Gly Ile Val Phe Pro Asp Cys Phe Tyr Pro Ser Ile Cys Lys Gly
 115 120 125
 Gly Lys Phe His Asp Val Ser Glu Ser Thr His Trp Thr Pro Phe Leu
 130 135 140
 Asn Ala Ser Val His Tyr Ile Arg Glu Asn Tyr Pro Leu Pro Trp Glu
 145 150 155 160
 Lys Asp Thr Glu Lys Leu Val Ala Phe Leu Phe Gly Ile Thr Ser His
 165 170 175
 Met Ala Ala Asp Val Ser Trp His Ser Leu Gly Leu Glu Gln Gly Phe
 180 185 190
 Leu Arg Thr Met Gly Ala Ile Asp Phe His Gly Ser Tyr Ser Glu Ala
 195 200 205
 His Ser Ala Gly Asp Phe Gly Gly Asp Val Leu Ser Gln Phe Glu Phe
 210 215 220
 Asn Phe Asn Tyr Leu Ala Arg Arg Trp Tyr Val Pro Val Lys Asp Leu
 225 230 235 240
 Leu Gly Ile Tyr Glu Lys Leu Tyr Gly Arg Lys Val Ile Thr Glu Asn
 245 250 255
 Val Ile Val Asp Cys Ser His Ile Gln Phe Leu Glu Met Tyr Gly Glu
 260 265 270
 Met Leu Ala Val Ser Lys Leu Tyr Pro Thr Tyr Ser Thr Lys Ser Pro
 275 280 285
 Phe Leu Val Glu Gln Phe Gln Glu Tyr Phe Leu Gly Gly Leu Asp Asp
 290 295 300
 Met Ala Phe Trp Ser Thr Asn Ile Tyr His Leu Thr Ile Phe Met Leu
 305 310 315 320
 Glu Asn Gly Thr Ser Asp Cys Asn Leu Pro Glu Asn Pro Leu Phe Ile
 325 330 335
 Ala Cys Gly Gly Gln Gln Asn His Thr Gln Gly Ser Lys Met Gln Lys
 340 345 350
 Asn Asp Phe His Arg Asn Leu Thr Thr Ser Leu Thr Glu Ser Val Asp
 355 360 365
 Arg Asn Ile Asn Tyr Thr Glu Arg Gly Val Phe Phe Ser Val Asn Ser
 370 375 380
 Trp Thr Pro Asp Ser Met Ser Phe Ile Tyr Lys Ala Leu Glu Arg Asn
 385 390 395 400
 Ile Arg Thr Met Phe Ile Gly Gly Ser Gln Leu Ser Gln Lys His Val
 405 410 415
 Ser Ser Pro Leu Ala Ser Tyr Phe Leu Ser Phe Pro Tyr Ala Arg Leu
 420 425 430
 Gly Trp Ala Met Thr Ser Ala Asp Leu Asn Gln Asp Gly His Gly Asp
 435 440 445
 Leu Val Val Gly Ala Pro Gly Tyr Ser Arg Pro Gly His Ile His Ile
 450 455 460
 Gly Arg Val Tyr Leu Ile Tyr Gly Asn Asp Leu Gly Leu Pro Pro Val
 465 470 475 480
 Asp Leu Asp Leu Asp Lys Glu Ala His Arg Ile Leu Glu Gly Phe Gln
 485 490 495
 Pro Ser Gly Arg Phe Gly Ser Ala Leu Ala Val Leu Asp Phe Asn Val
 500 505 510
 Asp Gly Val Pro Asp Leu Ala Val Gly Ala Pro Ser Val Gly Ser Glu
 515 520 525
 Gln Leu Thr Tyr Lys Gly Ala Val Tyr Val Tyr Phe Gly Ser Lys Gln
 530 535 540
 Gly Gly Met Ser Ser Ser Pro Asn Ile Thr Ile Ser Cys Gln Asp Ile
 545 550 555 560

Tyr Cys Asn Leu Gly Trp Thr Leu Leu Ala Ala Asp Val Asn Gly Asp
 565 570 575
 Ser Glu Pro Asp Leu Val Ile Gly Ser Pro Phe Ala Pro Gly Gly Gly
 580 585 590
 Lys Gln Lys Gly Ile Val Ala Ala Phe Tyr Ser Gly Pro Ser Leu Ser
 595 600 605
 Asp Lys Glu Lys Leu Asn Val Glu Ala Ala Asn Trp Thr Val Arg Gly
 610 615 620
 Glu Glu Asp Phe Ser Trp Phe Gly Tyr Ser Leu His Gly Val Thr Val
 625 630 635 640
 Asp Asn Arg Thr Leu Leu Val Gly Ser Pro Thr Trp Lys Asn Ala
 645 650 655
 Ser Arg Leu Gly His Leu Leu His Ile Arg Asp Glu Lys Lys Ser Leu
 660 665 670
 Gly Arg Val Tyr Gly Tyr Phe Pro Pro Asn Gly Gln Ser Trp Phe Thr
 675 680 685
 Ile Ser Gly Asp Lys Ala Met Gly Lys Leu Gly Thr Ser Leu Ser Ser
 690 695 700
 Gly His Val Leu Met Asn Gly Thr Leu Lys Gln Val Leu Leu Val Gly
 705 710 715 720
 Ala Pro Thr Tyr Asp Asp Val Ser Lys Val Ala Phe Leu Thr Val Thr
 725 730 735
 Leu His Gln Gly Gly Ala Thr Arg Met Tyr Ala Leu Thr Ser Asp Ala
 740 745 750
 Gln Pro Leu Leu Ser Thr Phe Ser Gly Asp Arg Arg Phe Ser Arg
 755 760 765
 Phe Gly Gly Val Leu His Leu Ser Asp Leu Asp Asp Gly Leu Asp
 770 775 780
 Glu Ile Ile Met Ala Ala Pro Leu Arg Ile Ala Asp Val Thr Ser Gly
 785 790 795 800
 Leu Ile Gly Gly Glu Asp Gly Arg Val Tyr Val Tyr Asn Gly Lys Glu
 805 810 815
 Thr Thr Leu Gly Asp Met Thr Gly Lys Cys Lys Ser Trp Ile Thr Pro
 820 825 830
 Cys Pro Glu Glu Lys Ala Gln Tyr Val Leu Ile Ser Pro Glu Ala Ser
 835 840 845
 Ser Arg Phe Gly Ser Ser Leu Ile Thr Val Arg Ser Lys Ala Lys Asn
 850 855 860
 Gln Val Val Ile Ala Ala Gly Arg Ser Ser Leu Gly Ala Arg Leu Ser
 865 870 875 880
 Gly Ala Leu His Val Tyr Ser Leu Gly Ser Asp
 885 890 891

<210> 1322

<211> 119

<212>Amino acid

<213> Homo sapiens

<400> 1322

Ser Leu Arg Asn Ser Ala Arg Gly Leu Lys Met Ala Ala Ser Ala Ala
 1 5 10 15
 Arg Gly Ala Ala Ala Leu Arg Arg Ser Ile Asn Gln Pro Val Ala Phe
 20 25 30
 Val Arg Arg Ile Pro Trp Thr Ala Ala Ser Ser Gln Leu Lys Glu His
 35 40 45
 Phe Ala Gln Phe Gly His Val Arg Arg Cys Ile Leu Pro Phe Asp Lys
 50 55 60
 Glu Thr Gly Phe His Arg Gly Leu Gly Trp Val Gln Phe Ser Ser Glu
 65 70 75 80

Glu Gly Leu Arg Asn Ala Leu Gln Gln Glu Asn His Ile Ile Asp Gly
 85 90 95
 Val Lys Val Gln Val His Thr Arg Arg Pro Lys Leu Pro Gln Thr Ser
 100 105 110
 Asp Asp Glu Lys Lys Asp Phe
 115 119

<210> 1323
 <211> 257
 <212>Amino acid
 <213> Homo sapiens

<400> 1323
 Gly Ser Ser Asn Ile His Ser Ala Ser Thr His Gly Phe Cys His Trp
 1 5 10 15
 Phe Ser Ser Pro Ser Thr Leu Lys Arg Gln Lys Gln Ala Ile Arg Phe
 20 25 30
 Gln Lys Ile Arg Arg Gln Met Glu Ala Pro Gly Ala Pro Pro Arg Thr
 35 40 45
 Leu Thr Trp Glu Ala Met Glu Gln Ile Arg Tyr Leu His Glu Glu Phe
 50 55 60
 Pro Glu Ser Trp Ser Val Pro Arg Leu Ala Glu Gly Phe Asp Val Ser
 65 70 75 80
 Thr Asp Val Ile Arg Arg Val Leu Lys Ser Lys Phe Leu Pro Thr Leu
 85 90 95
 Glu Gln Lys Leu Lys Gln Asp Gln Lys Val Leu Lys Lys Ala Gly Leu
 100 105 110
 Ala His Ser Leu Gln His Leu Arg Gly Ser Gly Asn Thr Ser Lys Leu
 115 120 125
 Leu Pro Ala Gly His Ser Val Ser Gly Ser Leu Leu Met Pro Gly His
 130 135 140
 Glu Ala Ser Ser Lys Asp Pro Asn His Ser Thr Ala Leu Lys Val Ile
 145 150 155 160
 Glu Ser Asp Thr His Arg Thr Asn Thr Pro Arg Arg Arg Lys Gly Arg
 165 170 175
 Asn Lys Glu Ile Gln Asp Leu Glu Glu Ser Phe Val Pro Val Ala Ala
 180 185 190
 Pro Leu Gly His Pro Arg Glu Leu Gln Lys Tyr Ser Ser Asp Ser Glu
 195 200 205
 Ser Pro Arg Gly Thr Gly Ser Gly Ala Leu Pro Ser Gly Gln Lys Leu
 210 215 220
 Glu Glu Leu Lys Ala Glu Glu Pro Asp Asn Phe Ser Ser Lys Val Val
 225 230 235 240
 Gln Arg Gly Arg Glu Phe Phe Asp Ser Asn Gly Asn Phe Leu Tyr Arg
 245 250 255
 Ile
 257

<210> 1324
 <211> 273
 <212>Amino acid
 <213> Homo sapiens

<400> 1324

Glu Thr Arg Val Lys Thr Ser Leu Glu Leu Leu Arg Thr Gln Leu Glu
 1 5 10 15
 Pro Thr Gly Thr Val Gly Asn Thr Ile Met Thr Ser Gln Pro Val Pro
 20 25 30
 Asn Glu Thr Ile Ile Val Leu Pro Ser Asn Val Ile Asn Phe Ser Gln
 35 40 45
 Ala Glu Lys Pro Glu Pro Thr Asn Gln Gly Gln Asp Ser Leu Lys Lys
 50 55 60
 His Leu His Ala Glu Ile Lys Val Ile Gly Thr Ile Gln Ile Leu Cys
 65 70 75 80
 Gly Met Met Val Leu Ser Leu Gly Ile Ile Leu Ala Ser Ala Ser Phe
 85 90 95
 Ser Pro Asn Phe Thr Gln Val Thr Ser Thr Leu Leu Asn Ser Ala Tyr
 100 105 110
 Pro Phe Ile Gly Pro Phe Phe Phe Ile Ile Ser Gly Ser Leu Ser Ile
 115 120 125
 Ala Thr Glu Lys Arg Leu Thr Lys Leu Leu Val His Ser Ser Leu Val
 130 135 140
 Gly Ser Ile Leu Ser Ala Leu Ser Ala Leu Val Gly Phe Ile Ile Leu
 145 150 155 160
 Ser Val Lys Gln Ala Thr Leu Asn Pro Ala Ser Leu Gln Cys Glu Leu
 165 170 175
 Asp Lys Asn Asn Ile Pro Thr Arg Ser Tyr Val Ser Tyr Phe Tyr His
 180 185 190
 Asp Ser Leu Tyr Thr Thr Asp Cys Tyr Thr Ala Lys Ala Ser Leu Ala
 195 200 205
 Gly Thr Leu Ser Leu Met Leu Ile Cys Thr Leu Leu Glu Phe Cys Leu
 210 215 220
 Ala Val Leu Thr Ala Val Leu Arg Trp Lys Gln Ala Tyr Ser Asp Phe
 225 230 235 240
 Pro Gly Ser Val Leu Phe Leu Pro His Ser Tyr Ile Gly Asn Ser Gly
 245 250 255
 Met Ser Ser Lys Met Thr His Asp Cys Gly Tyr Glu Glu Leu Leu Thr
 260 265 270
 Ser
 273

<210> 1325

<211> 477

<212> Amino acid

<213> Homo sapiens

<400> 1325

Glu Met Val Gly Ala Met Trp Lys Val Ile Val Ser Leu Val Leu Leu
 1 5 10 15
 Met Pro Gly Pro Cys Asp Gly Leu Phe Arg Ser Leu Tyr Arg Ser Val
 20 25 30
 Ser Met Pro Pro Lys Gly Asp Ser Gly Gln Pro Leu Phe Leu Thr Pro
 35 40 45
 Tyr Ile Glu Ala Gly Lys Ile Gln Lys Gly Arg Glu Leu Ser Leu Val
 50 55 60
 Gly Pro Phe Pro Gly Leu Asn Met Lys Ser Tyr Ala Gly Phe Leu Thr
 65 70 75 80
 Val Asn Lys Thr Tyr Asn Ser Asn Leu Phe Phe Trp Phe Phe Pro Ala
 85 90 95
 Gln Ile Gln Pro Glu Asp Ala Pro Val Val Leu Trp Leu Gln Gly Gly
 100 105 110
 Pro Gly Gly Ser Ser Met Phe Gly Leu Phe Val Glu His Gly Pro Tyr
 115 120 125

```

Val Val Thr Ser Asn Met Thr Leu Arg Asp Arg Asp Phe Pro Trp Thr
130 135 140
Thr Thr Leu Ser Met Leu Tyr Ile Asp Asn Pro Val Gly Thr Gly Phe
145 150 155 160
Ser Phe Thr Asp Asp Thr His Gly Tyr Ala Val Asn Glu Asp Asp Val
165 170 175
Ala Arg Asp Leu Tyr Ser Ala Leu Ile Gln Phe Phe Gln Ile Phe Pro
180 185 190
Glu Tyr Lys Asn Asn Asp Phe Tyr Val Thr Gly Glu Ser Tyr Ala Gly
195 200 205
Lys Tyr Val Pro Ala Ile Ala His Leu Ile His Ser Leu Asn Pro Val
210 215 220
Arg Glu Val Lys Ile Asn Leu Asn Gly Ile Ala Ile Gly Asp Gly Tyr
225 230 235 240
Ser Asp Pro Glu Ser Ile Ile Gly Gly Tyr Ala Glu Phe Leu Tyr Gln
245 250 255
Ile Gly Leu Leu Asp Glu Lys Gln Lys Lys Tyr Phe Gln Lys Gln Cys
260 265 270
His Glu Cys Ile Glu His Ile Arg Lys Gln Asn Trp Phe Glu Ala Phe
275 280 285
Glu Ile Leu Asp Lys Leu Leu Asp Gly Asp Leu Thr Ser Asp Pro Ser
290 295 300
Tyr Phe Gln Asn Val Thr Gly Cys Ser Asn Tyr Tyr Asn Phe Leu Arg
305 310 315 320
Cys Thr Glu Pro Glu Asp Gln Leu Tyr Tyr Val Lys Phe Leu Ser Leu
325 330 335
Pro Glu Val Arg Gln Ala Ile His Val Gly Asn Gln Thr Phe Asn Asp
340 345 350
Gly Thr Ile Val Glu Lys Tyr Leu Arg Glu Asp Thr Val Gln Ser Val
355 360 365
Lys Pro Trp Leu Thr Glu Ile Met Asn Asn Tyr Lys Val Leu Ile Tyr
370 375 380
Asn Gly Gln Leu Asp Ile Ile Val Ala Ala Ala Leu Thr Glu Arg Ser
385 390 395 400
Leu Met Gly Met Asp Trp Lys Gly Ser Gln Glu Tyr Lys Lys Ala Glu
405 410 415
Lys Lys Val Trp Lys Ile Phe Lys Ser Asp Ser Glu Val Ala Gly Tyr
420 425 430
Ile Arg Gln Ala Gly Asp Phe His Gln Val Ile Ile Arg Gly Gly Gly
435 440 445
His Ile Leu Pro Tyr Asp Gln Pro Leu Arg Ala Phe Asp Met Ile Asn
450 455 460
Arg Phe Ile Tyr Gly Lys Gly Trp Asp Pro Tyr Val Gly
465 470 475 477

```

<210> 1326

<211> 160

<212>Amino acid

<213> Homo sapiens

<400> 1326

```

Arg Asp Glu Arg Ala Lys Val Pro Phe Arg Ser Thr Glu Gly Gly Arg
1 5 10 15
Arg Arg Arg Arg Arg Met Glu Ala Val Val Phe Val Phe Ser Leu Leu
20 25 30
Asp Cys Cys Ala Leu Ile Phe Leu Ser Val Tyr Phe Ile Ile Thr Leu
35 40 45
Ser Asp Leu Glu Cys Asp Tyr Ile Asn Ala Arg Ser Cys Cys Ser Lys
50 55 60

```

```

Leu Asn Lys Trp Val Ile Pro Glu Leu Ile Gly His Thr Ile Val Thr
 65              70              75              80
Val Leu Leu Leu Met Ser Leu His Trp Phe Ile Phe Leu Leu Asn Leu
              85              90              95
Pro Val Ala Thr Trp Asn Ile Tyr Arg Tyr Ile Met Val Pro Ser Gly
              100             105             110
Asn Met Gly Val Phe Asp Pro Thr Glu Ile His Asn Arg Gly Gln Leu
              115             120             125
Lys Ser His Met Lys Glu Ala Met Ile Lys Leu Gly Phe His Leu Leu
              130             135             140
Cys Phe Phe Met Tyr Leu Tyr Ser Met Ile Leu Ala Leu Ile Asn Asp
145              150              155              160

```

```

<210> 1327
<211> 131
<212>Amino acid
<213> Homo sapiens

```

```

<400> 1327
Gln Ser Pro Gly His Gly Ala Pro Cys Gln Leu Ser Ser Ser His Ser
 1              5              10              15
Arg Ser Asn Arg Leu Leu Ser Pro Met Ala Arg Ala Thr Leu Ser Ala
              20              25              30
Ala Pro Ser Asn Pro Arg Leu Leu Arg Val Ala Leu Leu Leu Leu
              35              40              45
Leu Val Ala Ala Ser Arg Arg Ala Ala Gly Ala Pro Leu Ala Thr Glu
              50              55              60
Leu Arg Cys Gln Cys Leu Gln Thr Leu Gln Gly Ile His Leu Lys Asn
              65              70              75              80
Ile Gln Ser Val Lys Val Lys Ser Pro Gly Pro His Cys Ala Gln Thr
              85              90              95
Glu Val Ile Ala Thr Leu Lys Asn Gly Gln Lys Ala Cys Leu Asn Pro
              100             105             110
Ala Ser Pro Met Val Lys Lys Ile Ile Glu Lys Met Leu Lys Asn Gly
              115             120             125
Lys Ser Asn
130 131

```

```

<210> 1328
<211> 44
<212>Amino acid
<213> Homo sapiens

```

```

<400> 1328
His Pro Leu Ser Leu Val Phe Leu Ala Leu Asn Thr Gly Lys Glu Lys
 1              5              10              15
Ser His Pro Gly Gly Gly Glu Arg Pro Gly Leu Ala Gly Gln Gly
              20              25              30
Glu Pro Asp His Pro Ala Gly Ala Arg Asp Gly Arg
              35              40              44

```

<210> 1329
 <211> 525
 <212> Amino acid
 <213> Homo sapiens

<400> 1329
 Cys Thr Pro Val Ala Arg Ser Met Ala Thr Thr Ala Thr Cys Thr Arg
 1 5 10 15
 Phe Thr Asp Asp Tyr Gln Leu Phe Glu Glu Leu Gly Lys Gly Ala Phe
 20 25 30
 Ser Val Val Arg Arg Cys Val Lys Lys Thr Ser Thr Gln Glu Tyr Ala
 35 40 45
 Ala Lys Ile Ile Asn Thr Lys Lys Leu Ser Ala Arg Asp His Gln Lys
 50 55 60
 Leu Glu Arg Glu Ala Arg Ile Cys Arg Leu Leu Lys His Pro Asn Ile
 65 70 75 80
 Val Arg Leu His Asp Ser Ile Ser Glu Glu Gly Phe His Tyr Leu Val
 85 90 95
 Phe Asp Leu Val Thr Gly Gly Glu Leu Phe Glu Asp Ile Val Ala Arg
 100 105 110
 Glu Tyr Tyr Ser Glu Ala Asp Ala Ser His Cys Ile His Gln Ile Leu
 115 120 125
 Glu Ser Val Asn His Ile His Gln His Asp Ile Val His Arg Asp Leu
 130 135 140
 Lys Pro Glu Asn Leu Leu Leu Ala Ser Lys Cys Lys Gly Ala Ala Val
 145 150 155 160
 Lys Leu Ala Asp Phe Gly Leu Ala Ile Glu Val Gln Gly Glu Gln Gln
 165 170 175
 Ala Trp Phe Gly Phe Ala Gly Thr Pro Gly Tyr Leu Ser Pro Glu Val
 180 185 190
 Leu Arg Lys Asp Pro Tyr Gly Lys Pro Val Asp Ile Trp Ala Cys Gly
 195 200 205
 Val Ile Leu Tyr Ile Leu Leu Val Gly Tyr Pro Pro Phe Trp Asp Glu
 210 215 220
 Asp Gln His Lys Leu Tyr Gln Gln Ile Lys Ala Gly Ala Tyr Asp Phe
 225 230 235 240
 Pro Ser Pro Glu Trp Asp Thr Val Thr Pro Glu Ala Lys Asn Leu Ile
 245 250 255
 Asn Gln Met Leu Thr Ile Asn Pro Ala Lys Arg Ile Thr Ala Asp Gln
 260 265 270
 Ala Leu Lys His Pro Trp Val Cys Gln Arg Ser Thr Val Ala Ser Met
 275 280 285
 Met His Arg Gln Glu Thr Val Glu Cys Leu Arg Lys Phe Asn Ala Arg
 290 295 300
 Arg Lys Leu Lys Gly Ala Ile Leu Thr Thr Met Leu Val Ser Arg Asn
 305 310 315 320
 Phe Ser Ala Ala Lys Ser Leu Leu Asn Lys Lys Ser Asp Gly Gly Val
 325 330 335
 Lys Pro Gln Ser Asn Asn Lys Asn Ser Leu Val Ser Pro Ala Gln Glu
 340 345 350
 Pro Ala Pro Leu Gln Thr Ala Met Glu Pro Gln Thr Thr Val Val His
 355 360 365
 Asn Ala Thr Asp Gly Ile Lys Gly Ser Thr Glu Ser Cys Asn Thr Thr
 370 375 380
 Thr Glu Asp Glu Asp Leu Lys Val Arg Lys Gln Glu Ile Ile Lys Ile
 385 390 395 400
 Thr Glu Gln Leu Ile Glu Ala Ile Asn Asn Gly Asp Phe Glu Ala Tyr
 405 410 415
 Thr Lys Ile Cys Asp Pro Gly Leu Thr Ser Phe Glu Pro Glu Ala Leu
 420 425 430

Gly Asn Leu Val Glu Gly Met Asp Phe His Lys Phe Tyr Phe Glu Asn
 435 440 445
 Leu Leu Ser Lys Asn Ser Lys Pro Ile His Thr Thr Ile Leu Asn Pro
 450 455 460
 His Val His Val Ile Gly Glu Asp Ala Ala Cys Ile Ala Tyr Ile Arg
 465 470 475 480
 Leu Thr Gln Tyr Ile Asp Gly Gln Gly Arg Pro Arg Thr Ser Gln Ser
 485 490 495
 Glu Glu Thr Arg Val Trp His Arg Arg Asp Gly Lys Trp Leu Asn Val
 500 505 510
 His Tyr His Cys Ser Gly Ala Pro Ala Ala Pro Leu Gln
 515 520 525

<210> 1330
 <211> 205
 <212> Amino acid
 <213> Homo sapiens

<400> 1330
 Asn Arg Arg Thr Val Lys Met Leu Leu Glu Leu Ser Glu Glu His Lys
 1 5 10 15
 Glu His Leu Ala Phe Leu Pro Gln Val Asp Ser Ala Val Val Ala Glu
 20 25 30
 Phe Gly Arg Ile Ala Val Glu Phe Leu Arg Arg Gly Ala Asn Pro Lys
 35 40 45
 Ile Tyr Glu Gly Ala Ala Arg Lys Leu Asn Val Ser Ser Asp Thr Val
 50 55 60
 Gln His Gly Val Glu Gly Leu Thr Tyr Leu Leu Thr Glu Ser Ser Lys
 65 70 75 80
 Leu Met Ile Ser Glu Leu Asp Phe Gln Asp Ser Val Phe Val Leu Gly
 85 90 95
 Phe Ser Glu Glu Leu Asn Lys Leu Leu Leu Gln Leu Tyr Leu Asp Asn
 100 105 110
 Arg Lys Glu Ile Arg Thr Ile Leu Ser Glu Leu Ala Pro Ser Leu Pro
 115 120 125
 Ser Tyr His Asn Leu Glu Trp Arg Leu Asp Val Gln Leu Ala Ser Arg
 130 135 140
 Ser Leu Arg Gln Gln Ile Lys Pro Ala Val Thr Ile Lys Leu His Leu
 145 150 155 160
 Asn Gln Asn Gly Asp His Asn Thr Lys Val Leu Gln Thr Asp Pro Ala
 165 170 175
 Thr Leu Leu His Leu Val Gln Gln Leu Glu Gln Ala Leu Glu Glu Met
 180 185 190
 Lys Thr Asn His Cys Arg Arg Val Val Arg Asn Ile Lys
 195 200 205

<210> 1331
 <211> 78
 <212> Amino acid
 <213> Homo sapiens

<400> 1331
 Gly Thr Ser Ile Tyr Leu Ala His Arg Val Ala Arg Ala Trp Glu Leu
 1 5 10 15

Ala Gln Phe Ile His His Thr Ser Lys Lys Ala Asp Val Val Leu Ala
 20 25 30
 Cys Gly Asp Ser Ile Val His Pro Glu Asp Leu Ile Cys Cys Pro Leu
 35 40 45
 Thr Gly Arg Ser Cys Leu Cys Asp Val His Leu Leu Ser Ser Leu Leu
 50 55 60
 Ala Arg Leu Gly Arg Gly Tyr Ala Val Ser Leu Thr Asn Leu
 65 70 75 78

<210> 1332
 <211> 274
 <212> Amino acid
 <213> Homo sapiens

<400> 1332
 Arg Gly Cys Gly Ser Cys Gly Tyr Lys Pro Ser Ala Gly Pro Ala Trp
 1 5 10 15
 Arg Pro Arg Pro Pro Pro Ala Val Ser Pro Leu Arg His Pro Glu Pro
 20 25 30
 Ala Lys Val Leu Ser Phe Ser Ser Cys Pro Leu Pro Ala Leu Gly Arg
 35 40 45
 Thr Gly Pro Ser Arg Ala Ala Arg Ala Gln Ser Leu Thr Met Ala Ser
 50 55 60
 Leu Phe Lys Lys Lys Thr Val Asp Asp Val Ile Lys Glu Gln Asn Arg
 65 70 75 80
 Glu Leu Arg Gly Thr Gln Arg Ala Ile Ile Arg Asp Arg Ala Ala Leu
 85 90 95
 Glu Lys Gln Glu Lys Gln Leu Glu Leu Glu Ile Lys Lys Met Ala Lys
 100 105 110
 Ile Gly Asn Lys Glu Ala Cys Lys Val Leu Ala Lys Gln Leu Val His
 115 120 125
 Leu Arg Lys Gln Lys Thr Arg Thr Phe Ala Val Ser Ser Lys Val Thr
 130 135 140
 Ser Met Ser Thr Gln Thr Lys Val Met Asn Ser Gln Met Lys Met Ala
 145 150 155 160
 Gly Ala Met Ser Thr Thr Ala Lys Thr Met Gln Ala Val Asn Lys Lys
 165 170 175
 Met Asp Pro Gln Lys Thr Leu Gln Thr Met Gln Asn Phe Gln Lys Glu
 180 185 190
 Asn Met Lys Met Glu Met Thr Glu Glu Met Ile Asn Asp Thr Leu Asp
 195 200 205
 Asp Ile Phe Asp Gly Ser Asp Asp Glu Glu Glu Ser Gln Asp Ile Val
 210 215 220
 Asn Gln Val Leu Asp Glu Ile Gly Ile Glu Ile Ser Gly Lys Met Ala
 225 230 235 240
 Lys Ala Pro Ser Ala Ala Arg Ser Leu Pro Ser Ala Ser Thr Ser Lys
 245 250 255
 Ala Thr Ile Ser Asp Glu Glu Ile Glu Arg Gln Leu Lys Ala Leu Gly
 260 265 270
 Val Asp
 274

<210> 1333
 <211> 157
 <212> Amino acid
 <213> Homo sapiens

<400> 1333

```

Ser Thr Asp Gly Asn Gly Ala Glu Arg Leu Phe Ala Glu Leu Arg Lys
 1           5           10           15
Met Asn Ala Arg Gly Leu Gly Ser Glu Leu Lys Asp Ser Ile Pro Val
          20           25           30
Thr Glu Leu Ser Ala Ser Gly Pro Phe Glu Ser His Asp Leu Leu Arg
          35           40           45
Lys Gly Phe Ser Cys Val Lys Asn Glu Leu Leu Pro Ser His Pro Leu
 50           55           60
Glu Leu Ser Glu Lys Asn Phe Gln Leu Asn Gln Asp Lys Met Asn Phe
 65           70           75           80
Ser Thr Leu Arg Asn Ile Gln Gly Leu Phe Ala Pro Leu Lys Leu Gln
          85           90           95
Met Glu Phe Lys Ala Val Gln Gln Val Gln Arg Leu Pro Phe Leu Ser
          100          105          110
Ser Ser Asn Leu Ser Leu Asp Val Leu Arg Gly Asn Asp Glu Thr Ile
          115          120          125
Gly Phe Glu Asp Ile Leu Asn Asp Pro Ser Gln Ser Glu Val Met Gly
          130          135          140
Glu Pro His Leu Met Val Glu Tyr Lys Leu Gly Leu Leu
145           150           155           157

```

<210> 1334

<211> 193

<212>Amino acid

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(193)

<223> X = any amino acid or stop code

<400> 1334

```

Arg Asn Met Lys Leu His Tyr Val Ala Val Leu Thr Leu Ala Ile Leu
 1           5           10           15
Met Phe Leu Thr Trp Leu Pro Glu Ser Leu Ser Cys Asn Lys Ala Leu
          20           25           30
Cys Ala Ser Asp Val Ser Lys Cys Leu Ile Gln Glu Leu Cys Gln Cys
          35           40           45
Arg Pro Gly Glu Gly Asn Cys Ser Cys Cys Lys Glu Cys Met Leu Cys
          50           55           60
Leu Gly Ala Leu Trp Asp Glu Cys Cys Asp Cys Val Gly Met Cys Asn
          65           70           75           80
Pro Arg Asn Tyr Ser Asp Thr Pro Pro Thr Ser Lys Ser Thr Val Glu
          85           90           95
Glu Leu His Glu Pro Ile Pro Ser Leu Phe Arg Ala Leu Thr Glu Gly
          100          105          110
Asp Thr Gln Leu Asn Trp Asn Ile Val Ser Phe Pro Val Ala Glu Glu
          115          120          125
Leu Ser His His Glu Asn Leu Val Ser Phe Leu Glu Thr Val Asn Gln
          130          135          140
Pro His His Gln Asn Val Ser Val Pro Ser Asn Asn Val His Ala Pro
145           150           155           160
Tyr Ser Ser Asp Lys Glu Xaa Leu Pro Thr Val Asp Phe Phe His Ser
          165          170          175
Ala Pro Ser Cys Gly Leu Ser Met Xaa Ser Ile Ile Phe Phe Glu Glu

```

180 185 190
 Thr
 193

<210> 1335
 <211> 179
 <212> Amino acid
 <213> Homo sapiens

<400> 1335
 Val Gly Gly Val Pro Thr Trp Leu Glu Gly Cys Gly Ser Gly Asn Pro
 1 5 10 15
 Ser Pro Arg Ser Gly Gly Gly Pro Gly Ala Arg Leu Thr Leu Pro Ala
 20 25 30
 Leu Gln Met Thr Val His Asn Leu Tyr Leu Phe Asp Arg Asn Gly Val
 35 40 45
 Cys Leu His Tyr Ser Glu Trp His Arg Lys Lys Gln Ala Gly Ile Pro
 50 55 60
 Lys Glu Glu Glu Tyr Lys Leu Met Tyr Gly Met Leu Phe Ser Ile Arg
 65 70 75 80
 Ser Phe Val Ser Lys Met Ser Pro Leu Asp Met Lys Asp Gly Phe Leu
 85 90 95
 Ala Phe Gln Thr Ser Arg Tyr Lys Leu His Tyr Tyr Glu Thr Pro Thr
 100 105 110
 Gly Ile Lys Val Val Met Asn Thr Asp Leu Gly Val Gly Pro Ile Arg
 115 120 125
 Asp Val Leu His His Ile Tyr Ser Ala Leu Tyr Val Glu Leu Val Val
 130 135 140
 Lys Asn Pro Leu Cys Pro Leu Gly Gln Thr Val Gln Ser Glu Leu Phe
 145 150 155 160
 Arg Ser Arg Leu Asp Ser Tyr Val Arg Ser Leu Pro Phe Phe Ser Ala
 165 170 175
 Arg Ala Gly
 179

<210> 1336
 <211> 236
 <212> Amino acid
 <213> Homo sapiens

<400> 1336
 Pro Gly Leu Ser Gln Glu Pro Ser Gly Ser Met Glu Thr Val Val Ile
 1 5 10 15
 Val Ala Ile Gly Val Leu Ala Thr Ile Phe Leu Ala Ser Phe Ala Ala
 20 25 30
 Leu Val Leu Val Cys Arg Gln Arg Tyr Cys Arg Pro Arg Asp Leu Leu
 35 40 45
 Gln Arg Tyr Asp Ser Lys Pro Ile Val Asp Leu Ile Gly Ala Met Glu
 50 55 60
 Thr Gln Ser Glu Pro Ser Glu Leu Glu Leu Asp Asp Val Val Ile Thr
 65 70 75 80
 Asn Pro His Ile Glu Ala Ile Leu Glu Asn Glu Asp Trp Ile Glu Asp
 85 90 95
 Ala Ser Gly Leu Met Ser His Cys Ile Ala Ile Leu Lys Ile Cys His

```

      100      105      110
Thr Leu Thr Glu Lys Leu Val Ala Met Thr Met Gly Ser Gly Ala Lys
      115      120      125
Met Lys Thr Ser Ala Ser Val Ser Asp Ile Ile Val Val Ala Lys Arg
      130      135      140
Ile Ser Pro Arg Val Asp Asp Val Val Lys Ser Met Tyr Pro Pro Leu
145      150      155      160
Asp Pro Lys Leu Leu Asp Ala Arg Thr Thr Ala Leu Leu Ser Val
      165      170      175
Ser His Leu Val Leu Val Thr Arg Asn Ala Cys His Leu Thr Gly Gly
      180      185      190
Leu Asp Trp Ile Asp Gln Ser Leu Ser Ala Ala Glu Glu His Leu Glu
      195      200      205
Val Leu Arg Glu Ala Ala Leu Ala Ser Glu Pro Asp Lys Gly Leu Pro
      210      215      220
Gly Pro Glu Gly Phe Leu Gln Glu Gln Ser Ala Ile
225      230      235 236

```

<210> 1337
 <211> 161
 <212>Amino acid
 <213> Homo sapiens

```

      <400> 1337
Val Gly Met Glu Leu Pro Ala Val Asn Leu Lys Val Ile Leu Leu Gly
  1      5      10      15
His Trp Leu Leu Thr Thr Trp Gly Cys Ile Val Phe Ser Gly Ser Tyr
      20      25      30
Ala Trp Ala Asn Phe Thr Ile Leu Ala Leu Gly Val Trp Ala Val Ala
      35      40      45
Gln Arg Asp Ser Ile Asp Ala Ile Ser Met Phe Leu Gly Gly Leu Leu
      50      55      60
Ala Thr Ile Phe Leu Asp Ile Val His Ile Ser Ile Phe Tyr Pro Arg
      65      70      75      80
Val Ser Leu Thr Asp Thr Gly Arg Phe Gly Val Gly Met Ala Ile Leu
      85      90      95
Ser Leu Leu Leu Lys Pro Leu Ser Cys Cys Phe Val Tyr His Met Tyr
      100      105      110
Arg Glu Arg Gly Gly Glu Leu Leu Val His Thr Gly Phe Leu Gly Ser
      115      120      125
Ser Gln Asp Arg Ser Ala Tyr Gln Thr Ile Asp Ser Ala Glu Ala Pro
      130      135      140
Ala Asp Pro Phe Ala Val Pro Glu Gly Arg Ser Gln Asp Ala Arg Gly
145      150      155      160
Tyr
161

```

<210> 1338
 <211> 200
 <212>Amino acid
 <213> Homo sapiens

```

      <400> 1338
Pro Ala Ser Arg Pro Leu Leu Gly Pro Asp Thr Gly Ser Val Ala Asn

```

```

1           5           10           15
Ile Phe Lys Gly Leu Val Ile Leu Pro Glu Met Ser Leu Val Ile Arg
20           25           30
Asn Leu Gln Arg Val Ile Pro Ile Arg Arg Ala Pro Leu Arg Ser Lys
35           40           45
Ile Glu Ile Val Arg Arg Ile Leu Gly Val Gln Lys Phe Asp Leu Gly
50           55           60
Ile Ile Cys Val Asp Asn Lys Asn Ile Gln His Ile Asn Arg Ile Tyr
65           70           75           80
Arg Asp Arg Asn Val Pro Thr Asp Val Leu Ser Phe Pro Phe His Glu
85           90           95
His Leu Lys Ala Gly Glu Phe Pro Gln Pro Asp Phe Pro Asp Asp Tyr
100          105          110
Asn Leu Gly Asp Ile Phe Leu Gly Val Glu Tyr Ile Phe His Gln Cys
115          120          125
Lys Glu Asn Glu Asp Tyr Asn Asp Val Leu Thr Val Thr Ala Thr His
130          135          140
Gly Leu Cys His Leu Leu Gly Phe Thr His Gly Thr Glu Ala Glu Trp
145          150          155          160
Gln Gln Met Phe Gln Lys Glu Lys Ala Val Leu Asp Glu Leu Gly Arg
165          170          175
Arg Thr Gly Thr Arg Leu Gln Pro Leu Thr Pro Gly Pro Leu Pro Glu
180          185          190
Gly Ala Glu Gly Arg Val Pro Phe
195          200

```

<210> 1339

<211> 267

<212>Amino acid

<213> Homo sapiens

<400> 1339

```

Leu Arg Asn Ala Leu Asp Val Leu His Arg Glu Val Pro Arg Val Leu
1           5           10           15
Val Asn Leu Val Asp Phe Leu Asn Pro Thr Ile Met Arg Gln Val Phe
20           25           30
Leu Gly Asn Pro Asp Lys Cys Pro Val Gln Gln Ala Met Leu Glu Pro
35           40           45
Leu Gly Ser Lys Thr Glu Thr Leu Asp Leu Arg Ala Glu Met Pro Ile
50           55           60
Thr Cys Pro Thr Gln Asn Glu Pro Phe Leu Arg Thr Pro Arg Asn Ser
65           70           75           80
Asn Tyr Thr Tyr Pro Ile Lys Pro Ala Ile Glu Asn Trp Gly Ser Asp
85           90           95
Phe Leu Cys Thr Glu Trp Lys Ala Ser Asn Ser Val Pro Thr Ser Val
100          105          110
His Gln Leu Arg Pro Ala Asp Ile Lys Val Val Ala Ala Leu Gly Asp
115          120          125
Ser Leu Thr Thr Ala Val Gly Ala Arg Pro Asn Asn Ser Ser Asp Leu
130          135          140
Pro Thr Ser Trp Arg Gly Leu Ser Trp Ser Ile Gly Gly Asp Gly Asn
145          150          155          160
Leu Glu Thr His Thr Thr Leu Pro Asn Ile Leu Lys Lys Phe Asn Pro
165          170          175
Tyr Leu Leu Gly Phe Ser Thr Ser Thr Trp Glu Gly Thr Ala Gly Leu
180          185          190
Asn Val Ala Ala Glu Gly Ala Arg Ala Arg Asp Met Pro Ala Gln Ala
195          200          205
Trp Asp Leu Val Glu Arg Met Lys Asn Ser Pro Asp Ile Asn Leu Glu

```

210	215	220
Lys Asp Trp Lys Leu Val Thr Leu Phe Ile Gly Gly Asn Asp Leu Cys		
225	230	235
His Tyr Cys Glu Asn Pro Glu Ala His Leu Ala Thr Glu Tyr Val Gln		240
	245	250
His Ile Gln Gln Ala Leu Asp Ile Leu Ser Glu		255
260	265	267

<210> 1340

<211> 286

<212>Amino acid

<213> Homo sapiens

<400> 1340														
Val Val Glu Phe Leu Trp Ser Arg Arg Pro Ser Gly Ser Ser Asp Pro														
1	5	10	15											
Arg Pro Arg Arg Pro Ala Ser Lys Cys Gln Met Met Glu Glu Arg Ala														
	20	25	30											
Asn Leu Met His Met Met Lys Leu Ser Ile Lys Val Leu Leu Gln Ser														
	35	40	45											
Ala Leu Ser Leu Gly Arg Ser Leu Asp Ala Asp His Ala Pro Leu Gln														
	50	55	60											
Gln Phe Phe Val Val Met Glu His Cys Leu Lys His Gly Leu Lys Val														
	65	70	75											
Lys Lys Ser Phe Ile Gly Gln Asn Lys Ser Phe Phe Gly Pro Leu Glu														
	85	90	95											
Leu Val Glu Lys Leu Cys Pro Glu Ala Ser Asp Ile Ala Thr Ser Val														
	100	105	110											
Arg Asn Leu Pro Glu Leu Lys Thr Ala Val Gly Arg Gly Arg Ala Trp														
	115	120	125											
Leu Tyr Leu Ala Leu Met Gln Lys Lys Leu Ala Asp Tyr Leu Lys Val														
	130	135	140											
Leu Ile Asp Asn Lys His Leu Leu Ser Glu Phe Tyr Glu Pro Glu Ala														
	145	150	155											
Leu Met Met Glu Glu Gly Met Val Ile Val Gly Leu Leu Val Gly														
	165	170	175											
Leu Asn Val Leu Asp Ala Asn Leu Cys Leu Lys Gly Glu Asp Leu Asp														
	180	185	190											
Ser Gln Val Gly Val Ile Asp Phe Ser Leu Tyr Leu Lys Asp Val Gln														
	195	200	205											
Asp Leu Asp Gly Gly Lys Glu His Glu Arg Ile Thr Asp Val Leu Asp														
	210	215	220											
Gln Lys Asn Tyr Val Glu Leu Asn Arg His Leu Ser Cys Thr Val														
	225	230	235											
Gly Asp Leu Gln Thr Lys Ile Asp Gly Leu Glu Lys Thr Asn Ser Lys														
	245	250	255											
Leu Gln Glu Arg Val Ser Ala Ala Thr Asp Arg Ile Cys Ser Leu Gln														
	260	265	270											
Glu Glu Gln Gln Leu Arg Glu Gln Asn Glu Leu Ile Arg														
	275	280	285	286										

<210> 1341

<211> 233

<212>Amino acid

<213> Homo sapiens

<400> 1341

Lys	Pro	Glu	Gly	Ala	Arg	Arg	Val	Gln	Phe	Val	Met	Gly	Leu	Phe	Gly
1				5					10					15	
Lys	Thr	Gln	Glu	Lys	Pro	Pro	Lys	Glu	Leu	Val	Asn	Glu	Trp	Ser	Leu
		20						25					30		
Lys	Ile	Arg	Lys	Glu	Met	Arg	Val	Val	Asp	Arg	Gln	Ile	Arg	Asp	Ile
	35						40					45			
Gln	Arg	Glu	Glu	Glu	Lys	Val	Lys	Arg	Ser	Val	Lys	Asp	Ala	Ala	Lys
	50					55					60				
Lys	Gly	Gln	Lys	Asp	Val	Cys	Ile	Val	Leu	Ala	Lys	Glu	Met	Ile	Arg
65				70						75				80	
Ser	Arg	Lys	Ala	Val	Ser	Lys	Leu	Tyr	Ala	Ser	Lys	Ala	His	Met	Asn
				85					90					95	
Ser	Val	Leu	Met	Gly	Met	Lys	Asn	Gln	Leu	Ala	Val	Leu	Arg	Val	Ala
			100					105					110		
Gly	Ser	Leu	Gln	Lys	Ser	Thr	Glu	Val	Met	Lys	Ala	Met	Gln	Ser	Leu
	115						120					125			
Val	Lys	Ile	Pro	Glu	Ile	Gln	Ala	Thr	Met	Arg	Glu	Leu	Ser	Lys	Glu
	130					135					140				
Met	Met	Lys	Ala	Gly	Ile	Ile	Glu	Glu	Met	Leu	Glu	Asp	Thr	Phe	Glu
145				150						155				160	
Ser	Met	Asp	Asp	Gln	Glu	Glu	Met	Glu	Glu	Glu	Ala	Glu	Met	Glu	Ile
			165					170					175		
Asp	Arg	Ile	Leu	Phe	Glu	Ile	Thr	Ala	Gly	Ala	Leu	Gly	Lys	Ala	Pro
		180					185					190			
Ser	Lys	Val	Thr	Asp	Ala	Leu	Pro	Glu	Pro	Glu	Pro	Pro	Gly	Ala	Met
	195					200					205				
Ala	Ala	Ser	Glu	Asp	Glu	Glu	Glu	Glu	Glu	Glu	Ala	Leu	Glu	Ala	Met
	210				215						220				
Gln	Ser	Arg	Leu	Ala	Thr	Leu	Arg	Ser							
225					230			233							

<210> 1342

<211> 150

<212> Amino acid

<213> Homo sapiens

<400> 1342

Arg	Trp	Asn	Ser	Ile	Met	Glu	Leu	Ala	Leu	Leu	Cys	Gly	Leu	Val	Val
1				5					10					15	
Met	Ala	Gly	Val	Ile	Pro	Ile	Gln	Gly	Gly	Ile	Leu	Asn	Leu	Asn	Lys
		20						25					30		
Met	Val	Lys	Gln	Val	Thr	Gly	Lys	Met	Pro	Ile	Leu	Ser	Tyr	Trp	Pro
	35						40					45			
Tyr	Gly	Cys	His	Cys	Gly	Leu	Gly	Gly	Arg	Gly	Gln	Pro	Lys	Asp	Ala
	50					55					60				
Thr	Asp	Trp	Cys	Cys	Gln	Thr	His	Asp	Cys	Cys	Tyr	Asp	His	Leu	Lys
65				70						75				80	
Thr	Gln	Gly	Cys	Gly	Ile	Tyr	Lys	Asp	Tyr	Tyr	Arg	Tyr	Asn	Phe	Ser
			85					90					95		
Gln	Gly	Asn	Ile	His	Cys	Ser	Asp	Lys	Gly	Ser	Trp	Cys	Glu	Gln	Gln
		100						105					110		
Leu	Cys	Ala	Cys	Asp	Lys	Glu	Val	Ala	Phe	Cys	Leu	Lys	Arg	Asn	Leu
	115					120					125				
Asp	Thr	Tyr	Gln	Lys	Arg	Leu	Arg	Phe	Tyr	Trp	Arg	Pro	His	Cys	Arg
	130					135					140				
Gly	Gln	Thr	Pro	Gly	Cys										

145

150

<210> 1343
 <211> 127
 <212>Amino acid
 <213> Homo sapiens

<400> 1343
 Lys Thr Val Ala Glu Glu Ala Ser Val Gly Asn Pro Glu Gly Ala Phe
 1 5 10 15
 Met Lys Met Leu Gln Ala Arg Lys Gln His Met Ser Thr Glu Leu Thr
 20 25 30
 Ile Glu Ser Glu Ala Pro Ser Asp Ser Ser Gly Ile Asn Leu Ser Gly
 35 40 45
 Phe Gly Ser Glu Gln Leu Asp Thr Asn Asp Glu Ser Asp Val Ser Ser
 50 55 60
 Ala Leu Ser Tyr Ile Leu Pro Tyr Leu Ser Leu Arg Asn Leu Gly Ala
 65 70 75 80
 Glu Ser Ile Leu Leu Pro Phe Thr Glu Gln Leu Phe Ser Asn Val Gln
 85 90 95
 Asp Gly Asp Arg Leu Leu Ser Ile Leu Lys Asn Asn Arg Lys Ser Pro
 100 105 110
 Ser Gln Ser Ser Leu Leu Gly Asn Lys Phe Lys Asn Lys Ile Phe
 115 120 125 127

<210> 1344
 <211> 126
 <212>Amino acid
 <213> Homo sapiens

<400> 1344
 Leu Pro Leu Thr Leu Leu Leu Ala Ala Pro Phe Ala His Leu Leu Leu
 1 5 10 15
 Pro Pro Gly His Asp Gln Ser Pro Cys Trp His Pro Gly Pro Ala Leu
 20 25 30
 Ser Pro Gly Thr Leu Gly Pro Leu Ser Trp Ala Met Ala Asn Ser Gly
 35 40 45
 Leu Gln Leu Leu Gly Tyr Phe Leu Ala Leu Gly Gly Trp Val Gly Ile
 50 55 60
 Ile Ala Ser Thr Ala Leu Pro Gln Trp Lys Gln Ser Ser Tyr Ala Gly
 65 70 75 80
 Asp Ala Ser Ile Gln Leu Arg Ser Lys Val Phe Val Leu Glu Ser Glu
 85 90 95
 Trp Gly Gly Asp Ser Leu Gly Leu Pro Arg Asp Cys Gly Trp Ser Cys
 100 105 110
 Leu Leu His Ser Ala Val Arg Ser Glu Lys Gly Phe Trp Ser
 115 120 125 126

<210> 1345
 <211> 328
 <212>Amino acid
 <213> Homo sapiens

<400> 1345

Asp	Pro	Arg	Val	Arg	Pro	Pro	Leu	Leu	Gln	Pro	Pro	Pro	Pro	Leu	Leu
1				5					10					15	
Pro	Arg	Leu	Val	Ile	Leu	Lys	Met	Ala	Pro	Leu	Asp	Leu	Asp	Lys	Tyr
		20					25						30		
Val	Glu	Ile	Ala	Arg	Leu	Cys	Lys	Tyr	Leu	Pro	Glu	Asn	Asp	Leu	Lys
		35					40					45			
Arg	Leu	Cys	Asp	Tyr	Val	Cys	Asp	Leu	Leu	Leu	Glu	Glu	Ser	Asn	Val
	50					55					60				
Gln	Pro	Val	Ser	Thr	Pro	Val	Thr	Val	Cys	Gly	Asp	Ile	His	Gly	Gln
	65				70					75					80
Phe	Tyr	Asp	Leu	Cys	Glu	Leu	Phe	Arg	Thr	Gly	Gly	Gln	Val	Pro	Asp
			85					90						95	
Thr	Asn	Tyr	Ile	Phe	Met	Gly	Asp	Phe	Val	Asp	Arg	Gly	Tyr	Tyr	Ser
			100					105					110		
Leu	Glu	Thr	Phe	Thr	Tyr	Leu	Leu	Ala	Leu	Lys	Ala	Lys	Trp	Pro	Asp
		115				120						125			
Arg	Ile	Thr	Leu	Leu	Arg	Gly	Asn	His	Glu	Ser	Arg	Gln	Ile	Thr	Gln
	130					135						140			
Val	Tyr	Gly	Phe	Tyr	Asp	Glu	Cys	Gln	Thr	Lys	Tyr	Gly	Asn	Ala	Asn
	145				150					155					160
Ala	Trp	Arg	Tyr	Cys	Thr	Lys	Val	Phe	Asp	Met	Leu	Thr	Val	Ala	Ala
			165					170						175	
Leu	Ile	Asp	Glu	Gln	Ile	Leu	Cys	Val	His	Gly	Gly	Leu	Ser	Pro	Asp
		180				185						190			
Ile	Lys	Thr	Leu	Asp	Gln	Ile	Arg	Thr	Ile	Glu	Arg	Asn	Gln	Glu	Ile
		195				200						205			
Pro	His	Lys	Gly	Ala	Phe	Cys	Asp	Leu	Val	Trp	Ser	Asp	Pro	Glu	Asp
	210					215					220				
Val	Asp	Thr	Trp	Ala	Ile	Ser	Pro	Arg	Gly	Ala	Gly	Trp	Leu	Phe	Gly
	225				230					235					240
Ala	Lys	Val	Thr	Asn	Glu	Phe	Val	His	Ile	Asn	Asn	Leu	Lys	Leu	Ile
			245						250					255	
Cys	Arg	Ala	His	Gln	Leu	Val	His	Glu	Gly	Tyr	Lys	Phe	Met	Phe	Asp
		260						265					270		
Glu	Lys	Leu	Val	Thr	Val	Trp	Ser	Ala	Pro	Asn	Tyr	Cys	Tyr	Arg	Cys
		275				280						285			
Gly	Asn	Ile	Ala	Ser	Ile	Met	Val	Phe	Lys	Asp	Val	Asn	Thr	Arg	Glu
	290					295					300				
Pro	Lys	Leu	Phe	Arg	Ala	Val	Pro	Asp	Ser	Glu	Arg	Val	Ile	Pro	Pro
	305				310					315					320
Arg	Thr	Thr	Thr	Pro	Tyr	Phe	Leu								
			325				328								

<210> 1346

<211> 253

<212> Amino acid

<213> Homo sapiens

<400> 1346

Ser	Phe	Ala	Gly	Ala	Ala	Ala	Arg	Pro	Ser	Thr	Pro	Pro	Ala	Ser	Gly
1				5					10					15	
Arg	Gly	Ala	Ala	Pro	Gly	Arg	Pro	Gly	Pro	Ser	Pro	Met	Asp	Leu	Arg
		20					25					30			
Ala	Gly	Asp	Ser	Trp	Gly	Met	Leu	Ala	Cys	Leu	Cys	Thr	Val	Leu	Trp

```

      35      40      45
His Leu Pro Ala Val Pro Ala Leu Asn Arg Thr Gly Asp Pro Gly Pro
  50      55      60
Gly Pro Ser Ile Gln Lys Thr Tyr Asp Leu Thr Arg Tyr Leu Glu His
  65      70      75      80
Gln Leu Arg Ser Leu Ala Gly Thr Tyr Leu Asn Tyr Leu Gly Pro Pro
      85      90      95
Phe Asn Glu Pro Asp Phe Asn Pro Pro Arg Leu Gly Ala Glu Thr Leu
      100      105      110
Pro Arg Ala Thr Val Asp Leu Glu Val Trp Arg Ser Leu Asn Asp Lys
      115      120      125
Leu Arg Leu Thr Gln Asn Tyr Glu Ala Tyr Ser His Leu Leu Cys Tyr
      130      135      140
Leu Arg Gly Leu Asn Arg Gln Ala Ala Thr Ala Glu Leu Arg Arg Ser
      145      150      155      160
Leu Ala His Phe Cys Thr Ser Leu Gln Gly Leu Leu Gly Ser Ile Ala
      165      170      175
Gly Val Met Ala Ala Leu Gly Tyr Pro Leu Pro Gln Pro Leu Pro Gly
      180      185      190
Thr Glu Pro Thr Trp Thr Pro Gly Pro Ala His Ser Asp Phe Leu Gln
      195      200      205
Lys Met Asp Asp Phe Trp Leu Leu Lys Glu Leu Gln Thr Trp Leu Trp
      210      215      220
Arg Ser Ala Lys Asp Phe Asn Arg Leu Lys Lys Lys Met Gln Pro Pro
      225      230      235      240
Ala Ala Ala Val Thr Leu His Leu Gly Ala His Gly Phe
      245      250      253

```

<210> 1347

<211> 195

<212> Amino acid

<213> Homo sapiens

<400> 1347

```

      5      10      15
Ile Lys Ile Ser Leu Lys Lys Arg Ser Met Ser Gly Ile Ser Gly Cys
  1      5      10      15
Pro Phe Phe Leu Trp Gly Leu Leu Ala Leu Leu Gly Leu Ala Leu Val
      20      25      30
Ile Ser Leu Ile Phe Asn Ile Ser His Tyr Val Glu Lys Gln Arg Gln
      35      40      45
Asp Lys Met Tyr Ser Tyr Ser Ser Asp His Thr Arg Val Asp Glu Tyr
      50      55      60
Tyr Ile Glu Asp Thr Pro Ile Tyr Gly Asn Leu Asp Asp Met Ile Ser
      65      70      75      80
Glu Pro Met Asp Glu Asn Cys Tyr Glu Gln Met Lys Ala Arg Pro Glu
      85      90      95
Lys Ser Val Asn Lys Met Gln Glu Ala Thr Pro Ser Ala Gln Ala Thr
      100      105      110
Asn Glu Thr Gln Met Cys Tyr Ala Ser Leu Asp His Ser Val Lys Gly
      115      120      125
Lys Arg Arg Lys Pro Arg Lys Gln Asn Thr His Phe Ser Asp Lys Asp
      130      135      140
Gly Asp Glu Gln Leu His Ala Ile Asp Ala Ser Val Ser Lys Thr Thr
      145      150      155      160
Leu Val Asp Ser Phe Ser Pro Glu Ser Gln Ala Val Glu Glu Asn Ile
      165      170      175
His Asp Asp Pro Ile Arg Leu Phe Gly Leu Ile Arg Ala Lys Arg Glu
      180      185      190
Pro Ile Asn

```

195

<210> 1348
 <211> 268
 <212>Amino acid
 <213> Homo sapiens

<400> 1348
 Val Glu Phe His Pro Gln Arg Ala Arg Ala Gly Ala Arg Ala Pro Ser
 1 5 10 15
 Met Gly Val Leu Leu Thr Gln Arg Thr Leu Leu Ser Leu Val Leu Ala
 20 25 30
 Leu Leu Phe Pro Ser Met Ala Ser Met Ala Ala Ile Gly Ser Cys Ser
 35 40 45
 Lys Glu Tyr Arg Val Leu Leu Gly Gln Leu Gln Lys Gln Thr Asp Leu
 50 55 60
 Met Gln Asp Thr Ser Arg Leu Leu Asp Pro Tyr Ile Arg Ile Gln Gly
 65 70 75 80
 Leu Asp Val Pro Lys Leu Arg Glu His Cys Arg Glu Arg Pro Gly Ala
 85 90 95
 Phe Pro Ser Glu Thr Leu Arg Gly Leu Gly Arg Arg Cys Phe Leu
 100 105 110
 Gln Thr Leu Asn Ala Thr Leu Gly Cys Val Leu His Arg Leu Ala Asp
 115 120 125
 Leu Glu Gln Arg Leu Pro Lys Ala Gln Asp Leu Glu Arg Ser Gly Leu
 130 135 140
 Asn Ile Glu Asp Leu Glu Lys Leu Gln Met Ala Arg Pro Asn Ile Leu
 145 150 155 160
 Gly Leu Arg Asn Asn Ile Tyr Cys Met Ala Gln Leu Leu Asp Asn Ser
 165 170 175
 Asp Thr Ala Glu Pro Thr Lys Ala Gly Arg Gly Ala Ser Gln Pro Pro
 180 185 190
 Thr Pro Thr Pro Ala Ser Asp Ala Phe Gln Arg Lys Leu Glu Gly Cys
 195 200 205
 Arg Phe Leu His Gly Tyr His Arg Phe Met His Ser Val Gly Arg Val
 210 215 220
 Phe Ser Lys Trp Gly Glu Ser Pro Asn Arg Ser Arg Arg His Ser Pro
 225 230 235 240
 His Gln Ala Leu Arg Lys Gly Val Arg Arg Thr Arg Pro Ser Arg Lys
 245 250 255
 Gly Lys Arg Leu Met Thr Arg Gly Gln Leu Pro Arg
 260 265 268

<210> 1349
 <211> 138
 <212>Amino acid
 <213> Homo sapiens

<400> 1349
 Asp Phe Pro Gly Arg Arg Phe Arg Leu Val Trp Leu Leu Val Leu Arg
 1 5 10 15
 Leu Pro Trp Arg Val Pro Gly Gln Leu Asp Pro Thr Thr Gly Arg Arg
 20 25 30
 Phe Ser Glu His Lys Leu Cys Ala Asp Asp Glu Cys Ser Met Leu Met

```

      35      40      45
Tyr Arg Gly Glu Ala Leu Glu Asp Phe Thr Gly Pro Asp Cys Arg Phe
      50      55      60
Val Asn Phe Lys Lys Gly Asp Pro Val Tyr Val Tyr Tyr Lys Leu Ala
      65      70      75      80
Arg Gly Trp Pro Glu Val Trp Ala Gly Ser Val Gly Arg Thr Phe Gly
      85      90      95
Tyr Phe Pro Lys Asp Leu Ile Gln Val Val His Glu Tyr Thr Lys Glu
      100      105      110
Glu Leu Gln Val Pro Thr Asn Glu Thr Asp Phe Val Cys Phe Asp Gly
      115      120      125
Gly Arg Asp Asp Phe His Asn Tyr Asn Val
      130      135      138

```

<210> 1350
 <211> 236
 <212> Amino acid
 <213> Homo sapiens

```

      <400> 1350
Ser Pro Leu Gly Lys Glu Gly Gln Glu Glu Val Arg Val Lys Ile Lys
      1      5      10      15
Asp Leu Asn Glu His Ile Val Cys Cys Leu Cys Ala Gly Tyr Phe Val
      20      25      30
Asp Ala Thr Thr Ile Thr Glu Cys Leu His Thr Phe Cys Lys Ser Cys
      35      40      45
Ile Val Lys Tyr Leu Gln Thr Ser Lys Tyr Cys Pro Met Cys Asn Ile
      50      55      60
Lys Ile His Glu Thr Gln Pro Leu Leu Asn Leu Lys Leu Asp Arg Val
      65      70      75      80
Met Gln Asp Ile Val Tyr Lys Leu Val Pro Gly Leu Gln Asp Ser Glu
      85      90      95
Glu Lys Arg Ile Arg Glu Phe Tyr Gln Ser Arg Gly Leu Asp Arg Val
      100      105      110
Thr Gln Pro Thr Gly Glu Glu Pro Ala Leu Ser Asn Leu Gly Leu Pro
      115      120      125
Phe Ser Ser Phe Asp His Ser Lys Ala His Tyr Tyr Arg Tyr Asp Glu
      130      135      140
Gln Leu Asn Leu Cys Leu Glu Arg Leu Ser Ser Gly Lys Asp Lys Asn
      145      150      155      160
Lys Ser Val Leu Gln Asn Lys Tyr Val Arg Cys Ser Val Arg Ala Glu
      165      170      175
Val Arg His Leu Arg Arg Val Leu Cys His Arg Leu Met Leu Asn Pro
      180      185      190
Gln His Val Gln Leu Leu Phe Asp Asn Glu Val Leu Pro Asp His Met
      195      200      205
Thr Met Lys Gln Ile Trp Leu Ser Arg Trp Phe Gly Lys Pro Ser Pro
      210      215      220
Leu Leu Leu Gln Tyr Ser Val Lys Glu Lys Arg Arg
      225      230      235      236

```

<210> 1351
 <211> 178
 <212> Amino acid
 <213> Homo sapiens

<400> 1351

```

Leu Trp Trp Tyr Ser Ala His Ala Ala Val Asp Ala Met Met Asp Val
 1           5           10           15
Phe Gly Val Gly Phe Pro Ser Lys Val Pro Trp Lys Lys Met Ser Ala
           20           25           30
Glu Glu Leu Glu Asn Gln Tyr Cys Pro Ser Arg Trp Val Val Arg Leu
           35           40           45
Gly Ala Glu Glu Ala Leu Arg Thr Tyr Ser Gln Ile Gly Ile Glu Ala
           50           55           60
Thr Thr Arg Ala Arg Ala Thr Arg Lys Ser Leu Leu His Val Pro Tyr
           65           70           75           80
Gly Asp Gly Glu Gly Glu Lys Val Asp Ile Tyr Phe Pro Asp Glu Ser
           85           90           95
Ser Glu Ala Thr Thr Arg Ala Arg Ala Thr Arg Lys Ser Leu Leu His
           100          105          110
Val Pro Tyr Gly Asp Gly Glu Gly Lys Val Asp Ile Tyr Phe Pro
           115          120          125
Asp Glu Ser Ser Glu Ala Leu Pro Phe Phe Leu Phe Phe His Gly Gly
           130          135          140
Tyr Trp Gln Ser Gly Arg His Pro Gly Pro His Gly Arg Pro Gly Asp
           145          150          155          160
Pro Gln Arg Cys Val Cys Pro Glu Ala Val Ser Lys Gln Gln Ala Phe
           165          170          175
Ser Trp
           178

```

<210> 1352

<211> 284

<212>Amino acid

<213> Homo sapiens

<400> 1352

```

Gly Val Arg Met Ala Ser Arg Gly Arg Arg Pro Glu His Gly Gly Pro
 1           5           10           15
Pro Glu Leu Phe Tyr Asp Glu Thr Glu Ala Arg Lys Tyr Val Arg Asn
           20           25           30
Ser Arg Met Ile Asp Ile Gln Thr Arg Met Ala Gly Arg Ala Leu Glu
           35           40           45
Leu Leu Tyr Leu Pro Glu Asn Lys Pro Cys Tyr Leu Leu Asp Ile Gly
           50           55           60
Cys Gly Thr Gly Leu Ser Gly Ser Tyr Leu Ser Asp Glu Gly His Tyr
           65           70           75           80
Trp Val Gly Leu Asp Ile Ser Pro Ala Met Leu Asp Glu Ala Val Asp
           85           90           95
Arg Glu Ile Glu Gly Asp Leu Leu Leu Gly Asp Met Gly Gln Gly Ile
           100          105          110
Pro Phe Lys Pro Gly Thr Phe Asp Gly Cys Ile Ser Ile Ser Ala Val
           115          120          125
Gln Trp Leu Cys Asn Ala Asn Lys Lys Ser Glu Asn Pro Ala Lys Arg
           130          135          140
Leu Tyr Cys Phe Phe Ala Ser Leu Phe Ser Val Leu Val Arg Gly Ser
           145          150          155          160
Arg Ala Val Leu Gln Leu Tyr Pro Glu Asn Ser Glu Gln Leu Glu Leu
           165          170          175
Ile Thr Thr Gln Ala Thr Lys Ala Gly Phe Ser Gly Gly Met Val Val
           180          185          190
Asp Tyr Pro Asn Ser Ala Lys Ala Lys Lys Phe Tyr Leu Cys Leu Phe

```

195	200	205
Ser Gly Pro Ser Thr Phe Ile Pro Glu Gly Leu Ser Glu Asn Gln Asp		
210	215	220
Glu Val Glu Pro Arg Glu Ser Val Phe Thr Asn Glu Arg Phe Pro Leu		
225	230	235
Arg Met Ser Arg Arg Gly Met Val Arg Lys Ser Arg Ala Trp Val Leu		240
	245	250
Glu Lys Lys Glu Arg His Arg Arg Gln Gly Arg Glu Val Arg Pro Asp		255
	260	265
Thr Gln Tyr Thr Gly Arg Lys Arg Lys Pro Arg Phe		270
275	280	284

<210> 1353
 <211> 363
 <212> Amino acid
 <213> Homo sapiens

<400> 1353

Thr Leu Ile Cys Arg Met Ala Gly Cys Gly Glu Ile Asp His Ser Ile		
1	5	10
Asn Met Leu Pro Thr Asn Arg Lys Ala Asn Glu Ser Cys Ser Asn Thr		15
	20	25
Ala Pro Ser Leu Thr Val Pro Glu Cys Ala Ile Cys Leu Gln Thr Cys		30
	35	40
Val His Pro Val Ser Leu Pro Cys Lys His Val Phe Cys Tyr Leu Cys		45
	50	55
Val Lys Gly Ala Ser Trp Leu Gly Lys Arg Cys Ala Leu Cys Arg Gln		60
	65	70
Glu Ile Pro Glu Asp Phe Leu Asp Lys Pro Thr Leu Leu Ser Pro Glu		75
	85	90
Glu Leu Lys Ala Ala Ser Arg Gly Asn Gly Glu Tyr Ala Trp Tyr Tyr		95
	100	105
Glu Gly Arg Asn Gly Trp Trp Gln Tyr Asp Glu Arg Thr Ser Arg Glu		110
	115	120
Leu Glu Asp Ala Phe Ser Lys Gly Lys Lys Asn Thr Glu Met Leu Ile		125
	130	135
Ala Gly Phe Leu Tyr Val Ala Asp Leu Glu Asn Met Val Gln Tyr Arg		140
	145	150
Arg Asn Glu His Gly Arg Arg Arg Lys Ile Lys Arg Asp Ile Ile Asp		155
	165	170
Ile Pro Lys Lys Gly Val Ala Gly Leu Arg Leu Asp Cys Asp Ala Asn		175
	180	185
Thr Val Asn Leu Ala Arg Glu Ser Ser Ala Asp Gly Ala Asp Ser Val		190
	195	200
Ser Ala Gln Ser Gly Ala Ser Val Gln Pro Leu Val Ser Ser Val Arg		205
	210	215
Pro Leu Thr Ser Val Asp Gly Gln Leu Thr Ser Pro Ala Thr Pro Ser		220
	225	230
Pro Asp Ala Ser Thr Ser Leu Glu Asp Ser Phe Ala His Leu Gln Leu		235
	245	250
Ser Gly Asp Asn Thr Ala Glu Arg Ser His Arg Gly Glu Gly Glu Glu		255
	260	265
Asp His Glu Ser Pro Ser Ser Gly Arg Val Pro Ala Pro Asp Thr Ser		270
	275	280
Ile Glu Glu Thr Glu Ser Asp Ala Ser Ser Asp Ser Glu Asp Val Ser		285
	290	295
Ala Val Val Ala Gln His Ser Leu Thr Gln Gln Arg Leu Leu Val Ser		300
	305	310
Asn Ala Asn Gln Thr Val Pro Asp Arg Ser Asp Arg Ser Gly Thr Asp		315
		320

			325					330				335
Arg	Ser	Val	Ala	Gly	Gly	Gly	Thr	Val	Ser	Val	Ser	Val
			340					345				350
Arg	Pro	Asp	Gly	Gln	Cys	Thr	Val	Thr	Glu	Val		
		355					360		363			

<210> 1354
 <211> 368
 <212> Amino acid
 <213> Homo sapiens

<400> 1354

Gly	Ala	Thr	Pro	Leu	Gly	Ser	Val	Gly	Gly	Arg	Thr	Gly	Lys	Met	Asp
1				5				10					15		
Ala	Ala	Thr	Leu	Thr	Tyr	Asp	Thr	Leu	Arg	Phe	Ala	Glu	Phe	Glu	Asp
			20					25					30		
Phe	Pro	Glu	Thr	Ser	Glu	Pro	Val	Trp	Ile	Leu	Gly	Arg	Lys	Tyr	Ser
		35					40					45			
Ile	Phe	Thr	Glu	Lys	Asp	Glu	Ile	Leu	Ser	Asp	Val	Ala	Ser	Arg	Leu
	50					55					60				
Trp	Phe	Thr	Tyr	Arg	Lys	Asn	Phe	Pro	Ala	Ile	Gly	Gly	Thr	Gly	Pro
65					70					75					80
Thr	Ser	Asp	Thr	Gly	Trp	Gly	Cys	Met	Leu	Arg	Cys	Gly	Gln	Met	Ile
				85					90					95	
Phe	Ala	Gln	Ala	Leu	Val	Cys	Arg	His	Leu	Gly	Arg	Asp	Trp	Arg	Trp
			100					105					110		
Thr	Gln	Arg	Lys	Arg	Gln	Pro	Asp	Ser	Tyr	Phe	Ser	Val	Leu	Asn	Ala
	115						120					125			
Phe	Ile	Asp	Arg	Lys	Asp	Ser	Tyr	Tyr	Ser	Ile	His	Gln	Ile	Ala	Gln
	130					135					140				
Met	Gly	Val	Gly	Glu	Gly	Lys	Ser	Ile	Gly	Gln	Trp	Tyr	Gly	Pro	Asn
145					150					155					160
Thr	Val	Ala	Gln	Val	Leu	Lys	Lys	Leu	Ala	Val	Phe	Asp	Thr	Trp	Ser
			165						170					175	
Ser	Leu	Ala	Val	His	Ile	Ala	Met	Asp	Asn	Thr	Val	Val	Met	Glu	Glu
			180					185					190		
Ile	Arg	Arg	Leu	Cys	Arg	Thr	Ser	Val	Pro	Cys	Ala	Gly	Ala	Thr	Ala
	195						200					205			
Phe	Pro	Ala	Asp	Ser	Asp	Arg	His	Cys	Asn	Gly	Phe	Pro	Ala	Gly	Ala
	210					215					220				
Glu	Val	Thr	Asn	Arg	Pro	Ser	Pro	Trp	Arg	Pro	Leu	Val	Leu	Leu	Ile
225					230					235					240
Pro	Leu	Arg	Leu	Gly	Leu	Thr	Asp	Ile	Asn	Glu	Ala	Tyr	Val	Glu	Thr
			245						250					255	
Leu	Lys	His	Cys	Phe	Met	Met	Pro	Gln	Ser	Leu	Gly	Val	Ile	Gly	Gly
			260					265					270		
Lys	Pro	Asn	Ser	Ala	His	Tyr	Phe	Ile	Gly	Tyr	Val	Gly	Glu	Glu	Leu
	275						280					285			
Ile	Tyr	Leu	Asp	Pro	His	Thr	Thr	Gln	Pro	Ala	Val	Glu	Pro	Thr	Asp
	290					295					300				
Gly	Cys	Phe	Ile	Pro	Asp	Glu	Ser	Phe	His	Cys	Gln	His	Pro	Pro	Cys
305					310					315					320
Arg	Met	Ser	Ile	Ala	Glu	Leu	Asp	Pro	Ser	Ile	Ala	Val	Val	Arg	Gly
			325						330					335	
Gly	His	Leu	Ser	Thr	Gln	Ala	Phe	Gly	Ala	Glu	Cys	Cys	Leu	Gly	Met
			340					345					350		
Thr	Arg	Lys	Thr	Phe	Gly	Phe	Leu	Arg	Phe	Phe	Phe	Ser	Met	Leu	Gly
		355					360					365			368

<210> 1355
 <211> 117
 <212>Amino acid
 <213> Homo sapiens

<400> 1355
 Pro Thr Thr Ser Asn Arg Ala Ile Thr Leu Thr Ala Trp Pro Lys Ile
 1 5 10 15
 Pro Phe Leu Gly Ile Cys Glu Ala Lys Asn Pro Arg Ser Glu Asn Met
 20 25 30
 Arg Leu Ala Thr Ile Leu Glu Val Ala Cys His His Leu Gly Ser Gly
 35 40 45
 Pro Pro Pro Ser Trp Glu Leu Trp Glu Gln Gly Pro Pro Gly Asn Ser
 50 55 60
 Ser Arg Tyr Ile Glu Phe Leu Asn Lys His Thr Tyr Ile Lys Gly Thr
 65 70 75 80
 Leu Arg Val Tyr Thr Lys Lys Phe Cys Met Leu Val Ile Lys Ser Phe
 85 90 95
 Glu Ser Lys Ser Cys Val Cys Val Tyr Asp Phe Asp Ser Lys Ser Ser
 100 105 110
 Val Asn Val Thr Val
 115 117

<210> 1356
 <211> 126
 <212>Amino acid
 <213> Homo sapiens

<400> 1356
 Pro Arg Val Arg Phe Arg Leu Leu His Val Thr Ser Ile Arg Ser Ala
 1 5 10 15
 Trp Ile Leu Cys Gly Ile Ile Trp Ile Leu Ile Met Ala Ser Ser Ile
 20 25 30
 Met Leu Leu Asp Ser Gly Ser Glu Gln Asn Gly Ser Val Thr Ser Cys
 35 40 45
 Leu Glu Leu Asn Leu Tyr Lys Ile Ala Lys Leu Gln Thr Val Asn Tyr
 50 55 60
 Ile Ala Leu Val Val Gly Cys Leu Leu Pro Phe Phe Thr Leu Ser Ile
 65 70 75 80
 Cys Tyr Leu Leu Ile Ile Arg Val Leu Leu Lys Val Glu Val Pro Glu
 85 90 95
 Ser Gly Leu Arg Val Ser His Arg Lys Ala Leu Thr Thr Ile Ile Ile
 100 105 110
 Thr Leu Ile Ile Phe Phe Leu Cys Phe Leu Pro Tyr His Thr
 115 120 125 126

<210> 1357
 <211> 222
 <212>Amino acid
 <213> Homo sapiens

<400> 1357

```

Gly Arg His Trp Leu Gly Ser Ala Gln Leu Thr Asp Gly Gly Ser Ala
 1           5           10           15
Arg Lys Pro Lys Met Ala Val Pro Ala Ala Leu Ile Leu Arg Glu Ser
          20           25           30
Pro Ser Met Lys Lys Ala Val Ser Leu Ile Asn Ala Ile Asp Thr Gly
          35           40           45
Arg Phe Pro Arg Leu Leu Thr Arg Ile Leu Gln Lys Leu His Leu Lys
          50           55           60
Ala Glu Ser Ser Phe Ser Glu Glu Glu Glu Lys Leu Gln Ala Ala
          65           70           75           80
Phe Ser Leu Glu Lys Gln Asp Leu His Leu Val Leu Glu Thr Ile Ser
          85           90           95
Phe Ile Leu Glu Gln Ala Val Tyr His Asn Val Lys Pro Ala Ala Leu
          100          105          110
Gln Gln Gln Leu Glu Asn Ile His Leu Arg Gln Asp Lys Ala Glu Ala
          115          120          125
Phe Val Asn Thr Trp Ser Ser Met Gly Gln Glu Thr Val Glu Lys Phe
          130          135          140
Arg Gln Arg Ile Leu Ala Pro Cys Lys Leu Glu Thr Val Gly Trp Gln
          145          150          155          160
Leu Asn Leu Gln Met Ala His Ser Ala Gln Ala Lys Leu Lys Ser Pro
          165          170          175
Gln Ala Val Leu Gln Leu Gly Val Asn Asn Glu Asp Ser Lys Ser Leu
          180          185          190
Glu Lys Val Leu Val Glu Phe Ser His Lys Glu Leu Phe Asp Phe Tyr
          195          200          205
Asn Lys Leu Glu Thr Ile Gln Ala Gln Leu Asp Ser Leu Thr
          210          215          220          222

```

<210> 1358

<211> 116

<212>Amino acid

<213> Homo sapiens

<400> 1358

```

Glu Ala Ser Ser Ala Lys Thr Lys Arg Lys Glu Glu Lys Gly Pro Lys
 1           5           10           15
Ala Lys Met Lys Leu Met Val Leu Val Phe Thr Ile Gly Leu Thr Leu
          20           25           30
Leu Leu Gly Val Gln Ala Met Pro Ala Asn Arg Leu Ser Cys Tyr Arg
          35           40           45
Lys Ile Leu Lys Asp His Asn Cys His Asn Leu Pro Glu Gly Val Ala
          50           55           60
Asp Leu Thr Gln Ile Asp Val Asn Val Gln Asp His Phe Trp Asp Gly
          65           70           75           80
Lys Gly Cys Glu Met Ile Cys Tyr Cys Asn Phe Ser Glu Leu Leu Cys
          85           90           95
Cys Pro Lys Asp Val Phe Phe Gly Pro Lys Ile Ser Phe Val Ile Pro
          100          105          110
Cys Asn Asn Gln
          115 116

```

<210> 1359

<211> 466
 <212> Amino acid
 <213> Homo sapiens

<400> 1359
 Lys Met Ala Glu Ala Val Phe His Ala Pro Lys Arg Lys Arg Arg Val
 1 5 10 15
 Tyr Glu Thr Tyr Glu Ser Pro Leu Pro Ile Pro Phe Gly Gln Asp His
 20 25 30
 Gly Pro Leu Lys Glu Phe Lys Ile Phe Arg Ala Glu Met Ile Asn Asn
 35 40 45
 Asn Val Ile Val Arg Asn Ala Glu Asp Ile Glu Gln Leu Tyr Gly Lys
 50 55 60
 Gly Tyr Phe Gly Lys Gly Ile Leu Ser Arg Ser Arg Pro Ser Phe Thr
 65 70 75 80
 Ile Ser Asp Pro Lys Leu Val Ala Lys Trp Lys Asp Met Lys Thr Asn
 85 90 95
 Met Pro Ile Ile Thr Ser Lys Arg Tyr Gln His Ser Val Glu Trp Ala
 100 105 110
 Ala Glu Leu Met Arg Arg Gln Gly Gln Asp Glu Ser Thr Val Arg Arg
 115 120 125
 Ile Leu Lys Asp Tyr Thr Lys Pro Leu Glu His Pro Pro Val Lys Arg
 130 135 140
 Asn Glu Glu Ala Gln Val His Asp Lys Leu Asn Ser Gly Met Val Ser
 145 150 155 160
 Asn Met Glu Gly Thr Ala Gly Gly Glu Arg Pro Ser Val Val Asn Gly
 165 170 175
 Asp Ser Gly Lys Ser Gly Gly Val Gly Asp Pro Arg Glu Pro Leu Gly
 180 185 190
 Cys Leu Gln Glu Gly Ser Gly Cys His Pro Thr Thr Glu Ser Phe Glu
 195 200 205
 Lys Ser Val Arg Glu Asp Ala Ser Pro Leu Pro His Val Cys Cys Cys
 210 215 220
 Lys Gln Asp Ala Leu Ile Leu Gln Arg Gly Leu His His Glu Asp Gly
 225 230 235 240
 Ser Gln His Ile Gly Leu Leu His Pro Gly Asp Arg Gly Pro Asp His
 245 250 255
 Glu Tyr Val Leu Val Glu Glu Ala Glu Cys Ala Met Ser Glu Arg Glu
 260 265 270
 Ala Ala Pro Asn Glu Glu Leu Val Gln Arg Asn Arg Leu Ile Cys Arg
 275 280 285
 Arg Asn Pro Tyr Arg Ile Phe Glu Tyr Leu Gln Leu Ser Leu Glu Glu
 290 295 300
 Ala Phe Phe Leu Val Tyr Ala Leu Gly Cys Leu Ser Ile Tyr Tyr Glu
 305 310 315 320
 Lys Glu Pro Leu Thr Ile Val Lys Leu Trp Lys Ala Phe Thr Val Val
 325 330 335
 Gln Pro Thr Phe Arg Thr Thr Tyr Met Ala Tyr His Tyr Phe Arg Ser
 340 345 350
 Lys Gly Trp Val Pro Lys Val Gly Leu Lys Tyr Gly Thr Asp Leu Leu
 355 360 365
 Leu Tyr Arg Lys Gly Pro Pro Phe Tyr His Ala Ser Tyr Ser Val Ile
 370 375 380
 Ile Glu Leu Val Asp Asp His Phe Glu Gly Ser Leu Arg Arg Pro Leu
 385 390 395 400
 Ser Trp Lys Ser Leu Ala Ala Leu Ser Arg Val Ser Val Asn Val Ser
 405 410 415
 Lys Glu Leu Met Leu Cys Tyr Leu Ile Lys Pro Ser Thr Met Thr Asp
 420 425 430
 Lys Glu Met Glu Ser Pro Glu Cys Met Lys Arg Ile Lys Val Gln Glu

435 440 445
 Val Ile Leu Ser Arg Trp Val Ser Ser Arg Glu Arg Ser Asp Gln Asp
 450 455 460
 Asp Leu
 465 466

<210> 1360
 <211> 419
 <212> Amino acid
 <213> Homo sapiens

<400> 1360
 Arg Asp Ile Trp Thr Met Asn Leu Gln Arg Tyr Trp Gly Glu Ile Pro
 1 5 10 15
 Ile Ser Ser Ser Gln Thr Asn Arg Ser Ser Phe Asp Leu Leu Pro Arg
 20 25 30
 Glu Phe Arg Leu Val Glu Val His Asp Pro Pro Leu His Gln Pro Ser
 35 40 45
 Ala Asn Lys Pro Lys Pro Pro Thr Met Leu Asp Ile Pro Ser Glu Pro
 50 55 60
 Cys Ser Leu Thr Ile His Thr Ile Gln Leu Ile Gln His Asn Arg Arg
 65 70 75 80
 Leu Arg Asn Leu Ile Ala Thr Ala Gln Ala Gln Asn Gln Gln Gln Thr
 85 90 95
 Glu Gly Val Lys Thr Glu Glu Ser Glu Pro Leu Pro Ser Cys Pro Gly
 100 105 110
 Ser Pro Pro Leu Pro Asp Asp Leu Leu Pro Leu Asp Cys Lys Asn Pro
 115 120 125
 Asn Ala Pro Phe Gln Ile Arg His Ser Asp Pro Glu Ser Asp Phe Tyr
 130 135 140
 Arg Gly Lys Gly Glu Pro Val Thr Glu Leu Ser Trp His Ser Cys Arg
 145 150 155 160
 Gln Leu Leu Tyr Gln Ala Val Ala Thr Ile Leu Ala His Ala Gly Phe
 165 170 175
 Asp Cys Ala Asn Glu Ser Val Leu Glu Thr Leu Thr Asp Val Ala His
 180 185 190
 Glu Tyr Cys Leu Lys Phe Thr Lys Leu Leu Arg Phe Ala Val Asp Arg
 195 200 205
 Glu Ala Arg Leu Gly Gln Thr Pro Phe Pro Asp Val Met Glu Gln Val
 210 215 220
 Phe His Glu Val Gly Ile Gly Ser Val Leu Ser Leu Gln Lys Phe Trp
 225 230 235 240
 Gln His Arg Ile Lys Asp Tyr His Ser Tyr Met Leu Gln Ile Ser Lys
 245 250 255
 Gln Leu Ser Glu Glu Tyr Glu Arg Ile Val Asn Pro Glu Lys Ala Thr
 260 265 270
 Glu Asp Ala Lys Pro Val Lys Ile Lys Glu Glu Pro Val Ser Asp Ile
 275 280 285
 Thr Phe Pro Val Ser Glu Glu Leu Glu Ala Asp Leu Ala Ser Gly Asp
 290 295 300
 Gln Ser Leu Pro Met Gly Val Leu Gly Ala Gln Ser Glu Arg Phe Pro
 305 310 315 320
 Ser Asn Leu Glu Val Glu Ala Ser Pro Gln Ala Ser Ser Ala Glu Val
 325 330 335
 Asn Ala Ser Pro Leu Trp Asn Leu Ala His Val Lys Met Glu Pro Gln
 340 345 350
 Glu Ser Glu Glu Gly Asn Val Ser Gly His Gly Val Leu Gly Ser Asp
 355 360 365
 Val Phe Glu Glu Pro Met Ser Gly Met Ser Glu Ala Gly Ile Pro Gln

```

      370              375              380
Ser Pro Asp Asp Ser Asp Ser Ser Tyr Gly Ser His Ser Thr Asp Ser
385              390              395              400
Leu Met Gly Ser Ser Pro Val Phe Asn Gln Arg Cys Lys Lys Arg Met
      405              410              415
Arg Lys Ile
      419

```

```

<210> 1361
<211> 220
<212>Amino acid
<213> Homo sapiens

```

```

<400> 1361
Arg Glu Gln Ile Leu Phe Ile Glu Ile Arg Asp Thr Ala Lys Gly Gly
 1              5              10              15
Glu Thr Glu Gln Pro Pro Ser Leu Ser Pro Leu His Gly Gly Arg Met
      20              25              30
Pro Glu Met Gly Glu Gly Ile Gln Ser Leu Ala Arg Glu Thr Gln Ser
      35              40              45
His Arg Gly Arg Arg Gln Gly Trp Asp Ala Thr Trp Val Thr Arg Cys
      50              55              60
Arg Glu Ser Leu Asn Arg Gly Gly Ala Gly Ala Gly Lys Arg Ala Gly
      65              70              75              80
Ala Leu Ala His His Val Phe Leu Ala Leu Ile Glu Pro Asn Leu Ala
      85              90              95
Glu Arg Glu Ala Ser Glu Glu Glu Val Lys Ala Cys Ser Asp Glu Thr
      100             105             110
Val Val Ala Asp Leu Leu Val Lys Val Val Tyr Val Leu Gly Ala Ile
      115             120             125
Leu Lys Ile Phe Leu Arg Glu Gly Asn Val Leu Asn Gln His Ser Gly
      130             135             140
Met Asp Ile Glu Lys Tyr Ser Glu His Tyr Gln His Asp His Ser Pro
      145             150             155             160
Gly Ala Glu Asp Asp Ala Ala Gly Gly Gln Leu Arg Pro Thr Ala Gln
      165             170             175
Glu Arg Arg His Lys Glu Gly Ser Arg Gly Ser Pro Arg Cys Lys Arg
      180             185             190
Ala Arg Lys Ala Val Gly Glu Ser Pro Gly Cys Pro Arg Pro Arg Val
      195             200             205
Arg Pro Arg Val Arg Pro Arg Val Arg Pro Arg Val
      210             215             220

```

```

<210> 1362
<211> 82
<212>Amino acid
<213> Homo sapiens

```

```

<400> 1362
Gly Thr Arg Gly Cys Cys Arg Glu Gly Thr Ala Tyr Ala Lys Ala Tyr
 1              5              10              15
Gln Phe Met Ala Ser His Leu Ser Leu Gly Lys Pro Val Ser Thr Gly
      20              25              30
Ser Ile Pro Arg Phe Asn Lys Ala Leu Phe Asn Lys Gln Ala Lys Cys

```

```

      35      40      45
Lys Pro Asn His Tyr Ser Phe Ile Gly Leu Ser Met Leu Ser Pro Glu
   50      55      60
Asn Phe Ser Ile Gly Cys Lys Tyr Ser Val Trp Phe Ser Glu Thr Lys
   65      70      75      80
Gly Phe
   82

```

```

<210> 1363
<211> 143
<212>Amino acid
<213> Homo sapiens

```

```

<400> 1363
Gly Ala Gln Gly Val Arg Val Gly Ile Gly Glu Val Gly Arg Val Gln
 1      5      10      15
Ala Pro Arg Val Ser Leu Leu His Ser Gln Gly Val Pro Arg Gly Gly
      20      25      30
Thr Gly Glu Ala Val Lys Glu Glu Gly Arg Gly Ser Ser Leu His Pro
      35      40      45
Pro Leu Pro Pro Gln Gly Leu Gly Glu Tyr Ala Ala Cys Gln Ser His
      50      55      60
Ala Phe Met Lys Gly Val Phe Thr Phe Val Thr Gly Thr Gly Met Ala
      65      70      75      80
Phe Gly Leu Gln Met Phe Ile Gln Arg Lys Phe Pro Tyr Pro Leu Gln
      85      90      95
Trp Ser Leu Leu Val Ala Val Val Ala Gly Ser Val Val Ser Tyr Gly
      100      105      110
Val Thr Arg Val Glu Ser Glu Lys Cys Asn Asn Leu Trp Leu Phe Leu
      115      120      125
Glu Thr Gly Gln Leu Pro Lys Asp Arg Ser Thr Asp Gln Arg Ser
      130      135      140      143

```

```

<210> 1364
<211> 194
<212>Amino acid
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1) ... (194)
<223> X = any amino acid or stop code

```

```

<400> 1364
Gly Thr Ser Glu Leu Leu Cys Ile Gln Arg Trp Asn Trp Gly Pro Ala
 1      5      10      15
Phe Pro Pro Arg Pro Gly Leu Ala Leu Ala Pro Thr Leu Gln Leu Leu
      20      25      30
Val Glu Met Gly Ser Ala Lys Ser Val Pro Val Thr Pro Ala Arg Pro
      35      40      45
Pro Pro His Asn Lys His Leu Ala Arg Val Ala Asp Pro Arg Ser Pro
      50      55      60
Ser Ala Gly Ile Leu Arg Thr Pro Ile Gln Val Glu Ser Ser Pro Gln
      65      70      75      80

```

```

Pro Gly Leu Pro Ala Gly Glu Gln Leu Glu Gly Leu Lys His Ala Gln
      85                      90                      95
Asp Ser Asp Pro Arg Ser Pro Leu Gly Lys Asn Xaa Gly His Gly Trp
      100                    105                    110
Gln Val Gly Gln Gly Ser Asp Leu Gly Ser Pro Gln Pro Leu Pro Pro
      115                    120                    125
Ser Ala Ser His Leu Tyr Ser Ser Arg Ala Ser Arg Cys Ser Gln Pro
      130                    135                    140
Pro Cys Leu Ser Leu Pro Trp Phe Gly Val Arg Ser Ser Pro Ala Asn
      145                    150                    155                    160
Thr Tyr His Val Pro Val Thr Ser Leu Cys Pro Ser Pro Ala Leu His
      165                    170                    175
Tyr Thr Ala Leu Gln Ala Gly Ile Ile Ser Thr Ser Gln Ala Arg Ala
      180                    185                    190
Pro Arg
      194

```

<210> 1365

<211> 114

<212>Amino acid

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1) ... (114)

<223> X = any amino acid or stop code

<400> 1365

```

Pro Leu Leu Leu Pro Arg Phe Ile Asp Ile Pro Cys Leu Leu Cys Tyr
  1                      5                      10                      15
Leu Thr Gln Val Thr Pro Asp Asp Met Tyr Ala Lys Ala Phe Leu Ile
      20                    25                    30
Lys Pro Asn Thr Ala Ile Thr Gly Thr Asp Arg Arg Lys Leu Arg Ala
      35                    40                    45
Asp Glu Thr Thr Asp Phe Pro Thr Leu Gly Thr Asp Gln Ile Tyr Glu
      50                    55                    60
Leu Leu Pro Gly Lys Asp Glu Leu Asn Ile Val Lys Ser Asn Ala His
      65                    70                    75                    80
Lys Arg Asp Ala Xaa Thr Ala Tyr Val Ser Gly Glu Asn His Ile Leu
      85                    90                    95
Ser Glu Pro Xaa Lys Asn Leu Tyr Pro Ala Val Asn Thr Leu Ser Ser
      100                   105                   110
Tyr Pro
      114

```

<210> 1366

<211> 80

<212>Amino acid

<213> Homo sapiens

<400> 1366

```

Ser Arg Gln Pro Pro Leu Leu Thr Met Val Phe Leu Leu Glu Phe
  1                      5                      10                      15
Leu Phe Leu Val Phe Phe Pro Gly Cys Val Asn Gln Leu Leu Leu Ser

```

```

      20      25      30
Tyr Pro Trp Gln Gly Gln Gly Thr Ser Leu Trp Ser Ser Leu Ser Phe
      35      40      45
His Trp Leu Leu Pro Gln Glu Asp Ser Ser Arg Leu Ser Ile Phe Pro
      50      55      60
Leu Arg Ala Gly Ser Pro Pro Gln Pro Ala Gln Ala Pro Gln Arg Ile
      65      70      75      80

```

<210> 1367
 <211> 301
 <212>Amino acid
 <213> Homo sapiens

```

      <400> 1367
Lys Ser Arg Glu Gln Ser Ser Leu Phe Ala Ala Asp Ala Glu Arg Ser
  1      5      10      15
Trp Gly Gly Lys Ser Cys Cys Leu Leu Arg Trp Arg Phe Val Gly Lys
      20      25      30
Ala Ser His Phe Pro Arg Leu Leu Pro Leu Pro Gly Glu Glu Arg Pro
      35      40      45
Glu Thr Lys Glu Arg Ala Trp Lys Met Glu Gln Thr Trp Thr Arg Asp
      50      55      60
Tyr Phe Ala Glu Asp Asp Gly Glu Met Val Pro Arg Thr Ser His Thr
      65      70      75      80
Ala Ala Ser Val Ser Leu Thr Ala Phe Leu Ser Asp Thr Lys Asp Arg
      85      90      95
Gly Pro Pro Val Gln Ser Gln Ile Trp Arg Ser Gly Glu Lys Val Pro
      100      105      110
Phe Val Gln Thr Tyr Ser Leu Arg Ala Phe Glu Lys Pro Pro Gln Val
      115      120      125
Gln Thr Gln Ala Leu Arg Asp Phe Glu Lys His Leu Asn Asp Leu Lys
      130      135      140
Lys Glu Asn Phe Ser Leu Lys Leu Leu Ile Tyr Phe Leu Glu Glu Arg
      145      150      155      160
Met Gln Gln Lys Tyr Glu Ala Ser Arg Glu Asp Ile Tyr Lys Arg Asn
      165      170      175
Thr Glu Leu Lys Val Glu Val Glu Ser Leu Lys Arg Glu Leu Gln Asp
      180      185      190
Lys Lys Gln His Leu Asp Lys Thr Trp Ala Asp Val Glu Asn Leu Asn
      195      200      205
Ser Gln Asn Glu Ala Glu Leu Arg Arg Gln Phe Glu Glu Arg Gln Gln
      210      215      220
Glu Met Glu His Val Tyr Glu Leu Leu Glu Asn Lys Met Gln Leu Leu
      225      230      235      240
Gln Glu Glu Ser Arg Leu Ala Lys Asn Glu Ala Ala Arg Met Ala Ala
      245      250      255
Leu Val Glu Ala Glu Lys Glu Cys Asn Leu Glu Leu Ser Glu Lys Leu
      260      265      270
Lys Gly Val Thr Lys Asn Trp Glu Asp Val Pro Gly Asp Gln Val Lys
      275      280      285
Pro Asp Gln Tyr Thr Glu Ala Leu Ala Gln Arg Asp Lys
      290      295      300      301

```

<210> 1368
 <211> 308
 <212>Amino acid

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(308)

<223> X = any amino acid or stop code

<400> 1368

```

Thr Arg Arg Arg Gly Thr Thr Trp Arg Ser Pro Arg Pro Arg Arg Ala
 1           5           10           15
Ser Thr Ser Arg Pro Ser Thr Arg Pro Arg Gly Val Ala Ser Trp Pro
          20           25           30
Trp Glu Thr Ala Gly Thr Ala Thr Thr Gly Pro Gly Pro Ser Ala Arg
      35           40           45
Thr Arg Arg Arg Ala Ala Arg Arg Arg Arg Ser Arg Pro Arg Arg Arg
      50           55           60
Ala His Gly Gly Leu Ser Gln Pro Ala Gly Trp Gln Ser Leu Leu Ser
      65           70           75           80
Phe Thr Ile Leu Phe Leu Ala Trp Leu Ala Gly Phe Ser Ser Arg Leu
          85           90           95
Phe Ala Val Ile Arg Phe Glu Ser Ile Ile His Glu Phe Asp Pro Trp
          100          105          110
Phe Asn Tyr Arg Ser Thr His His Leu Ala Ser His Gly Phe Tyr Glu
          115          120          125
Phe Leu Asn Trp Phe Asp Glu Arg Ala Trp Tyr Pro Leu Gly Arg Ile
          130          135          140
Val Gly Gly Thr Val Tyr Pro Gly Leu Met Ile Thr Ala Gly Leu Ile
          145          150          155          160
His Trp Ile Leu Asn Thr Leu Asn Ile Thr Val His Ile Arg Asp Val
          165          170          175
Cys Val Phe Leu Ala Pro Thr Phe Ser Gly Leu Thr Ser Ile Ser Thr
          180          185          190
Phe Leu Leu Thr Arg Glu Leu Trp Asn Gln Gly Ala Gly Leu Leu Ala
          195          200          205
Ala Cys Phe Ile Ala Ile Val Pro Gly Tyr Ile Ser Arg Ser Val Ala
          210          215          220
Gly Ser Phe Asp Asn Glu Gly Ile Ala Ile Phe Ala Leu Gln Phe Thr
          225          230          235          240
Tyr Tyr Leu Trp Val Lys Ser Val Lys Thr Gly Ser Val Phe Trp Thr
          245          250          255
Met Cys Cys Cys Leu Ser Tyr Phe Tyr Met Val Ser Ala Trp Gly Gly
          260          265          270
Tyr Val Phe Ile Ile Asn Leu Ile Pro Leu His Ala Phe Val Leu Val
          275          280          285
Leu Met Gln Arg Tyr Ser Lys Arg Val Tyr Ile Xaa Tyr Ser Thr Phe
          290          295          300
Tyr Ile Val Gly
305          308

```

<210> 1369

<211> 212

<212> Amino acid

<213> Homo sapiens

<400> 1369

```

Arg Arg Leu Ile Val Val Leu Ser Asp Ala Phe Leu Ser Arg Ala Trp
 1           5           10           15
Cys Ser His Ser Phe Arg Val Gly Pro Ala Arg Gly Trp Val Gly Pro
          20           25           30
Ser Val Ala Pro Thr Pro Leu Thr Val Pro Pro Arg Arg Glu Gly Leu
          35           40           45
Cys Arg Leu Leu Glu Leu Thr Arg Arg Pro Ile Phe Ile Thr Phe Glu
          50           55           60
Gly Gln Arg Arg Asp Pro Ala His Pro Ala Leu Arg Leu Leu Arg Gln
          65           70           75           80
His Arg His Leu Val Thr Leu Leu Leu Trp Arg Pro Gly Ser Val Thr
          85           90           95
Pro Ser Ser Asp Phe Trp Lys Glu Val Gln Leu Ala Leu Pro Arg Lys
          100          105          110
Val Arg Tyr Arg Pro Val Glu Gly Asp Pro Gln Thr Gln Leu Gln Asp
          115          120          125
Asp Lys Asp Pro Met Leu Ile Leu Arg Gly Arg Val Pro Glu Gly Arg
          130          135          140
Ala Leu Asp Ser Glu Val Asp Pro Asp Pro Glu Gly Asp Leu Gly Val
          145          150          155          160
Arg Gly Pro Val Phe Gly Glu Pro Ser Ala Pro Pro His Thr Ser Gly
          165          170          175
Val Ser Leu Gly Glu Ser Arg Ser Ser Glu Val Asp Val Ser Asp Leu
          180          185          190
Gly Ser Arg Asn Tyr Ser Ala Arg Thr Asp Phe Tyr Cys Leu Val Ser
          195          200          205
Lys Asp Asp Met
          210          212

```

<210> 1370

<211> 281

<212>Amino acid

<213> Homo sapiens

<400> 1370

```

Leu Ser His Glu Gly Trp Arg Arg Gly Arg Glu Gly Glu Arg Ile Asn
 1           5           10           15
Ser Ser Val Ala Ser Leu Ala Pro Leu Cys Ile Leu Pro Asp Leu Pro
          20           25           30
Ser Asn Met His Leu Ala Arg Leu Val Gly Ser Cys Ser Leu Leu Leu
          35           40           45
Leu Leu Gly Ala Leu Ser Gly Trp Ala Ala Ser Asp Asp Pro Ile Glu
          50           55           60
Lys Val Ile Glu Gly Ile Asn Arg Gly Leu Ser Asn Ala Glu Arg Glu
          65           70           75           80
Val Gly Lys Ala Leu Asp Gly Ile Asn Ser Gly Ile Thr His Ala Gly
          85           90           95
Arg Glu Val Glu Lys Val Phe Asn Gly Leu Ser Asn Met Gly Ser His
          100          105          110
Thr Gly Lys Glu Leu Asp Lys Gly Val Gln Gly Leu Asn His Gly Met
          115          120          125
Asp Lys Val Ala His Glu Ile Asn His Gly Ile Gly Gln Ala Gly Lys
          130          135          140
Glu Ala Glu Lys Leu Gly His Gly Val Asn Asn Ala Ala Gly Gln Ala
          145          150          155          160
Gly Lys Glu Ala Asp Lys Ala Val Gln Gly Phe His Thr Gly Val His
          165          170          175
Gln Ala Gly Lys Glu Ala Glu Lys Leu Gly Gln Gly Val Asn His Ala
          180          185          190

```

Ala Asp Gln Ala Gly Lys Glu Val Glu Lys Leu Gly Gln Gly Ala His
 195 200 205
 His Ala Ala Gly Gln Ala Gly Lys Glu Leu Gln Asn Ala His Asn Gly
 210 215 220
 Val Asn Gln Ala Ser Lys Glu Ala Asn Gln Leu Leu Asn Gly Asn His
 225 230 235 240
 Gln Ser Gly Ser Ser Ser His Gln Gly Gly Ala Thr Thr Thr Pro Leu
 245 250 255
 Ala Ser Gly Ala Ser Val Asn Thr Pro Phe Ile Asn Leu Pro Ala Leu
 260 265 270
 Trp Arg Ser Val Ala Asn Ile Met Pro
 275 280 281

<210> 1371
 <211> 119
 <212> Amino acid
 <213> Homo sapiens

<400> 1371
 Ser Ala Ser Gly Gly Leu Gly Met Thr Val Glu Gly Pro Glu Gly Ser
 1 5 10 15
 Glu Arg Glu His Arg Pro Pro Glu Lys Pro Pro Arg Pro Pro Arg Pro
 20 25 30
 Leu His Leu Ser Asp Arg Ser Phe Arg Arg Lys Lys Asp Ser Val Glu
 35 40 45
 Ser His Pro Thr Trp Val Asp Asp Thr Arg Ile Asp Ala Asp Ala Ile
 50 55 60
 Val Glu Lys Ile Val Gln Ser Gln Asp Phe Thr Asp Gly Ser Asn Thr
 65 70 75 80
 Glu Asp Ser Asn Leu Arg Leu Phe Val Ser Arg Asp Gly Ser Ala Thr
 85 90 95
 Leu Ser Gly Ile Gln Leu Ala Thr Arg Val Ser Ser Gly Val Tyr Glu
 100 105 110
 Pro Val Val Ile Glu Ser His
 115 119

<210> 1372
 <211> 108
 <212> Amino acid
 <213> Homo sapiens

<400> 1372
 Glu Arg Ser Gly Trp Pro Gln Pro Glu Gly Thr Val Thr Ala Gln Gly
 1 5 10 15
 Pro Leu Phe Trp Glu Arg Leu Ser Gly Ala Val Thr Val Ser Ser Gly
 20 25 30
 Tyr Lys Ala Asp Met Trp Pro Ser Phe Pro Gln Val Arg Val Gly Ser
 35 40 45
 Phe Leu Phe Gly Ile Leu Phe Phe Ser Phe Gly Ser Ser Ser Leu Pro
 50 55 60
 Pro Gly Leu Pro Pro Pro Ala Ser Leu Leu Cys Ala Val Gln Trp
 65 70 75 80
 Gly Ala Arg Ala Leu Phe Leu Pro Cys Leu Lys Glu Arg Ala Leu Gly
 85 90 95

Met Glu Met Arg Asn Asn Thr Leu Ser Phe Arg Gln
 100 105 108

<210> 1373
 <211> 209
 <212>Amino acid
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(209)
 <223> X = any amino acid or stop code

<400> 1373
 Ser Ser Ser Asn Leu Arg Leu Ser Phe Leu Ile Asn Glu Asn Ile Leu
 1 5 10 15
 Gly Lys Cys Phe Arg Ser Gly Pro Ser Cys Ala Gly Pro Arg Ile Ser
 20 25 30
 Pro Leu Ala Ala Gln Tyr Glu Cys Pro Arg Pro Ser Leu Leu Ile Met
 35 40 45
 Ala Ser Val Pro Lys Thr Asn Lys Ile Glu Pro Arg Ser Tyr Ser Ile
 50 55 60
 Ile Pro Ser Cys Gly Ile Arg Arg Leu Gly Pro Ala Leu Asn Thr Leu
 65 70 75 80
 Ile Phe Gln Ser Lys Arg Phe Gly Pro Arg Gly His Ser Ala Lys Ser
 85 90 95
 Ile Glu Gly Ala Pro Arg Gly Lys Gly Arg Gly Arg Ala Val Ala Arg
 100 105 110
 Leu Ala Ala Asp Arg Pro Pro Ala Pro Lys Ile Gln Leu Arg Ala Phe
 115 120 125
 Xaa Leu Gln Gln Leu Xaa Tyr Thr Leu Leu Glu Leu Glu Leu Pro Arg
 130 135 140
 Leu Leu Ala Pro Asp Leu Pro Ser Asn Gly Ser Ser Leu Lys Asp Leu
 145 150 155 160
 Lys Trp Thr His Ser Asn Tyr Arg Ala Ser Lys Glu Ser Cys Ile Val
 165 170 175
 Ile Phe Val Thr Thr Ser Pro Gly Arg Glu Trp Val Ile Cys Ala Leu
 180 185 190
 Ala Ala Phe Leu Gly Cys Gly Ser Leu Ser Gln Ala Pro Ser Pro Glu
 195 200 205
 Ser
 209

<210> 1374
 <211> 153
 <212>Amino acid
 <213> Homo sapiens

<400> 1374
 Leu Arg Ile Ile Asn Thr Tyr Phe Cys Phe Lys Phe Leu Ile Val Asn
 1 5 10 15
 Tyr Ile His Gly Thr Thr Lys Ala Arg Lys Pro His Val Leu Gly Glu
 20 25 30
 Ser Leu Ile Ser Ala Met Ser Arg Gln Glu Pro Lys Met Phe Val Leu

```

      35      40      45
Leu Tyr Val Thr Ser Phe Ala Ile Cys Ala Ser Gly Gln Pro Arg Gly
  50      55      60
Asn Gln Leu Lys Gly Glu Asn Tyr Ser Pro Arg Tyr Ile Cys Ser Ile
  65      70      75      80
Pro Gly Leu Pro Gly Pro Pro Gly Pro Pro Gly Ala Asn Gly Ser Pro
      85      90      95
Gly Pro His Gly Arg Ile Gly Leu Pro Gly Arg Asp Gly Arg Asp Gly
      100      105      110
Arg Lys Gly Glu Lys Gly Glu Lys Gly Thr Ala Gly Leu Arg Gly Lys
      115      120      125
Thr Gly Pro Leu Gly Leu Ala Gly Glu Lys Gly Asp Gln Gly Glu Thr
      130      135      140
Gly Lys Lys Gly Pro Ile Gly Pro Glu
145      150      153

```

<210> 1375
 <211> 149
 <212>Amino acid
 <213> Homo sapiens

```

<400> 1375
Phe Ala Ser Ala Met Leu Gly Ser Arg Val Asp Arg Pro Lys Leu Ser
  1      5      10      15
Val Ala Pro Ser Val Val Leu Glu Glu Asp Gln Val Leu Val Ser Pro
      20      25      30
Ala Val Asp Leu Glu Ala Gly Cys Arg Leu Arg Asp Phe Thr Glu Lys
      35      40      45
Ile Met Asn Val Lys Gly Lys Val Ile Leu Ser Met Leu Val Val Ser
      50      55      60
Thr Val Ile Ile Val Phe Trp Glu Phe Ile Asn Ser Thr Glu Gly Ser
      65      70      75      80
Phe Leu Trp Ile Tyr His Ser Lys Asn Pro Glu Val Asp Asp Ser Ser
      85      90      95
Ala Gln Lys Gly Trp Trp Phe Leu Ser Trp Phe Asn Asn Gly Ile His
      100      105      110
Asn Tyr Gln Gln Gly Glu Glu Asp Ile Asp Lys Glu Lys Gly Arg Glu
      115      120      125
Glu Thr Lys Gly Arg Lys Met Thr Gln Gln Ser Phe Gly Tyr Gly Thr
      130      135      140
Gly Leu Ile Gln Thr
145      149

```

<210> 1376
 <211> 416
 <212>Amino acid
 <213> Homo sapiens

```

<400> 1376
Gly Ser His Arg Phe Ser Leu Ala Ser Pro Leu Asp Pro Glu Val Gly
  1      5      10      15
Pro Tyr Cys Asp Thr Pro Thr Met Arg Thr Leu Phe Asn Leu Leu Trp
      20      25      30
Leu Ala Leu Ala Cys Ser Pro Val His Thr Thr Leu Ser Lys Ser Asp

```

```
<210> 1377
<211> 316
<212> Amino acid
<213> Homo sapiens
```

858

```

      20      25      30
Asp Ser Trp Gly Gln Leu Val Glu Ala Ile Asp Glu Tyr Gln Ile Leu
      35      40      45
Ala Arg His Leu Gln Lys Glu Ala Gln Ala Gln His Asn Asn Ser Glu
      50      55      60
Phe Thr Glu Glu Gln Lys Lys Thr Ile Gly Lys Ile Ala Thr Cys Leu
      65      70      75      80
Glu Leu Arg Ser Ala Ala Leu Gln Ser Thr Gln Ser Gln Glu Glu Phe
      85      90      95
Lys Leu Glu Asp Leu Lys Lys Leu Glu Pro Ile Leu Lys Asn Ile Leu
      100      105      110
Thr Tyr Asn Lys Glu Phe Pro Phe Asp Val Gln Pro Val Pro Leu Arg
      115      120      125
Arg Ile Leu Ala Pro Gly Glu Glu Glu Asn Leu Glu Phe Glu Glu Asp
      130      135      140
Glu Glu Glu Gly Gly Ala Gly Ala Gly Ser Pro Asp Ser Phe Pro Ala
      145      150      155      160
Arg Val Pro Gly Thr Leu Leu Pro Arg Leu Pro Ser Glu Pro Gly Met
      165      170      175
Thr Leu Leu Thr Ile Arg Ile Glu Lys Ile Gly Leu Lys Asp Ala Gly
      180      185      190
Gln Cys Ile Asn Pro Tyr Ile Thr Val Ser Val Lys Asp Leu Asn Gly
      195      200      205
Ile Asp Leu Thr Pro Val Gln Asp Thr Pro Val Ala Ser Arg Lys Glu
      210      215      220
Asp Thr Tyr Val His Phe Asn Val Asp Ile Glu Leu Gln Lys His Val
      225      230      235      240
Glu Lys Leu Thr Lys Gly Ala Ala Ile Phe Phe Glu Phe Lys His Tyr
      245      250      255
Lys Pro Lys Lys Arg Phe Thr Ser Thr Lys Cys Phe Ala Phe Met Glu
      260      265      270
Met Asp Glu Ile Lys Leu Gly Pro Ile Val Ile Glu Leu Tyr Lys Lys
      275      280      285
Pro Thr Asp Phe Lys Arg Lys Gln Leu Gln Leu Leu Thr Lys Lys Pro
      290      295      300
Leu Tyr Leu His Leu His Gln Thr Leu His Lys Glu
      305      310      315      316

```

<210> 1378

<211> 90

<212> Amino acid

<213> Homo sapiens

<400> 1378

```

Gly Ser Ile Thr Ser Glu Pro Ser Leu Asp Ser Leu Gln Pro Leu Pro
  1      5      10      15
Pro Gly Phe Lys Arg Phe Ser Cys Leu Ser Leu Pro Ser Ser Trp Asp
      20      25      30
Tyr Arg Arg Pro Pro Pro Gly Leu Ala Tyr Phe Cys Ile Phe Ser Arg
      35      40      45
Asp Glu Val Ser Pro Cys Trp Pro Gly Cys Ser Pro Ser Pro Asp Leu
      50      55      60
Met Ile Arg Leu Pro Arg Pro Pro Ser Val Gly Ile Thr Gly Val Ser
      65      70      75      80
His Arg Ala Trp Pro Thr Ile Asp Asn Phe
      85      90

```

<210> 1379

<211> 332
 <212>Amino acid
 <213> Homo sapiens

<400> 1379
 Lys Met Pro Val Pro Trp Phe Leu Leu Ser Leu Ala Leu Gly Arg Ser
 1 5 10 15
 Pro Val Val Leu Ser Leu Glu Arg Leu Val Gly Pro Gln Asp Ala Thr
 20 25 30
 His Cys Ser Pro Gly Leu Ser Cys Arg Leu Trp Asp Ser Asp Ile Leu
 35 40 45
 Cys Leu Pro Gly Asp Ile Val Pro Ala Pro Gly Pro Val Leu Ala Pro
 50 55 60
 Thr His Leu Gln Thr Glu Leu Val Leu Arg Cys Gln Lys Glu Thr Asp
 65 70 75 80
 Cys Asp Leu Cys Leu Arg Val Ala Val His Leu Ala Val His Gly His
 85 90 95
 Trp Glu Glu Pro Glu Asp Glu Glu Lys Phe Gly Gly Ala Ala Asp Ser
 100 105 110
 Gly Val Glu Glu Pro Arg Asn Ala Ser Leu Gln Ala Gln Val Val Leu
 115 120 125
 Ser Phe Gln Ala Tyr Pro Thr Ala Arg Cys Val Leu Leu Glu Val Gln
 130 135 140
 Val Pro Ala Ala Leu Val Gln Phe Gly Gln Ser Val Gly Ser Val Val
 145 150 155 160
 Tyr Asp Cys Phe Glu Ala Ala Leu Gly Ser Glu Val Arg Ile Trp Ser
 165 170 175
 Tyr Thr Gln Pro Arg Tyr Glu Lys Glu Leu Asn His Thr Gln Gln Leu
 180 185 190
 Pro Asp Cys Arg Gly Leu Glu Val Trp Asn Ser Ile Pro Ser Cys Trp
 195 200 205
 Ala Leu Pro Trp Leu Asn Val Ser Ala Asp Gly Asp Asn Val His Leu
 210 215 220
 Val Leu Asn Val Ser Glu Glu Gln His Phe Gly Leu Ser Leu Tyr Trp
 225 230 235 240
 Asn Gln Val Gln Gly Pro Pro Lys Pro Arg Trp His Lys Asn Leu Val
 245 250 255
 Arg Pro Pro Pro Ser Gln Val His Ser His Cys Arg Pro Cys Leu Cys
 260 265 270
 Lys Asp Ala Val Pro Tyr Gln Arg Gly Ser Leu Lys Arg Thr His Pro
 275 280 285
 Lys Gln Gly Lys Ile Gly Gly Gly Thr Ser Ala Phe Leu Val Ser Leu
 290 295 300
 Thr Leu Ala Ser Ser Ser Ser Leu Ser Ser Pro Thr Ser Phe Leu
 305 310 315 320
 Tyr Leu Phe His Arg Leu Asp Arg Arg Ser Leu Pro
 325 330 332

<210> 1380
 <211> 117
 <212>Amino acid
 <213> Homo sapiens

<400> 1380
 Leu Arg Leu Trp Asn Arg Asn Gln Met Met His Asn Ile Ile Val Lys

```

      1           5           10           15
Glu Leu Ile Val Thr Phe Phe Leu Gly Ile Thr Val Val Gln Met Leu
      20           25           30
Ile Ser Val Thr Gly Leu Lys Gly Val Glu Ala Gln Asn Gly Ser Glu
      35           40           45
Ser Glu Val Phe Val Gly Lys Tyr Glu Thr Leu Val Phe Tyr Trp Pro
      50           55           60
Ser Leu Leu Cys Leu Ala Phe Leu Leu Gly Arg Phe Leu His Met Phe
      65           70           75           80
Val Lys Ala Leu Arg Val His Leu Gly Trp Glu Leu Gln Val Glu Glu
      85           90           95
Lys Ser Val Leu Glu Val His Gln Gly Glu His Val Lys Gln Leu Leu
      100           105           110
Arg Ile Pro Arg Pro
      115           117

```

```

<210> 1381
<211> 216
<212>Amino acid
<213> Homo sapiens

```

```

      <400> 1381
Lys Val Asn Arg Lys Leu Arg Lys Lys Gly Lys Ile Ser His Asp Lys
      1           5           10           15
Arg Lys Lys Ser Arg Ser Lys Ala Ile Gly Ser Asp Thr Ser Asp Ile
      20           25           30
Val His Ile Trp Cys Pro Glu Gly Met Lys Thr Ser Asp Ile Lys Glu
      35           40           45
Leu Asn Ile Val Leu Pro Glu Phe Glu Lys Thr His Leu Glu His Gln
      50           55           60
Gln Arg Ile Glu Ser Lys Val Cys Lys Ala Ala Ile Ala Thr Phe Tyr
      65           70           75           80
Val Asn Val Lys Glu Gln Phe Ile Lys Met Leu Lys Glu Ser Gln Met
      85           90           95
Leu Thr Asn Leu Lys Arg Lys Asn Ala Lys Met Ile Ser Asp Ile Glu
      100           105           110
Lys Lys Arg Gln Arg Met Ile Glu Val Gln Asp Glu Leu Leu Arg Leu
      115           120           125
Glu Pro Gln Leu Lys Gln Leu Gln Thr Lys Tyr Asp Glu Leu Lys Glu
      130           135           140
Arg Lys Ser Ser Leu Arg Asn Ala Ala Tyr Phe Leu Ser Asn Leu Lys
      145           150           155           160
Gln Leu Tyr Gln Asp Tyr Ser Asp Val Gln Ala Gln Glu Pro Asn Val
      165           170           175
Lys Glu Thr Tyr Asp Ser Ser Ser Leu Pro Ala Leu Leu Phe Lys Ala
      180           185           190
Arg Thr Leu Leu Gly Ala Glu Ser His Leu Arg Asn Ile Asn His Gln
      195           200           205
Leu Glu Lys Leu Leu Asp Gln Gly
      210           215 216

```

```

<210> 1382
<211> 137
<212>Amino acid
<213> Homo sapiens

```

```

<220>
<221> misc_feature

```

<222> (1)...(137)

<223> X = any amino acid or stop code

<400> 1382

```

Val Trp Val Ala Met Glu Glu Pro Pro Val Arg Glu Glu Glu Xaa Glu
 1          5          10          15
Glu Gly Glu Glu Asp Glu Glu Arg Asp Glu Val Gly Pro Glu Gly Ala
          20          25          30
Leu Gly Lys Ser Pro Phe Gln Leu Thr Ala Glu Asp Val Tyr Asp Ile
          35          40          45
Ser Tyr Leu Leu Gly Arg Glu Leu Met Ala Leu Gly Ser Asp Pro Arg
          50          55          60
Val Thr Gln Leu Gln Phe Lys Val Val Arg Val Leu Glu Met Leu Glu
          65          70          75          80
Ala Leu Val Asn Glu Gly Ser Leu Ala Leu Glu Glu Leu Lys Met Glu
          85          90          95
Arg Asp His Leu Arg Lys Glu Val Glu Gly Leu Arg Arg Gln Ser Pro
          100          105          110
Pro Ala Ser Gly Glu Trp Pro Asp Ser Thr Lys Arg Arg Pro Arg Arg
          115          120          125
Lys Lys Arg Lys Arg Cys Cys Gly Tyr
          130          135          137

```

<210> 1383

<211> 90

<212>Amino acid

<213> Homo sapiens

<400> 1383

```

Pro Arg Asn Asp His Arg Leu Thr Gln Ser Arg Arg Asp Ser Ser Ser
 1          5          10          15
Lys Thr Arg Ala Phe Leu Val Pro Arg Phe Leu Pro Ala His Ala Gly
          20          25          30
Val Thr Ser Glu Glu Arg Thr Ala Met Lys Arg Glu Gly Gly Ala Ala
          35          40          45
His Leu Cys Ser Asp Ser Leu Pro Glu Ser Gln Gln Gln Asp Gly Asn
          50          55          60
His Ala Pro Asn Phe Ser Ser His Gly Ser Cys Arg Arg Arg Gln Arg
          65          70          75          80
Arg Arg His Asp Lys Ala Leu His Ala Arg
          85          90

```

<210> 1384

<211> 166

<212>Amino acid

<213> Homo sapiens

<400> 1384

```

Thr His Ala Ser Glu Lys Ser Arg Ala Thr Met Ser Ser Trp Ser Arg
 1          5          10          15

```

Gln Arg Pro Lys Ser Pro Gly Gly Ile Gln Pro His Val Ser Arg Thr
 20 25 30
 Leu Phe Leu Leu Leu Leu Ala Ala Ser Ala Trp Gly Val Thr Leu
 35 40 45
 Ser Pro Lys Asp Cys Gln Val Phe Arg Ser Asp His Gly Ser Ser Ile
 50 55 60
 Ser Cys Gln Pro Pro Ala Glu Ile Pro Gly Tyr Leu Pro Ala Asp Thr
 65 70 75 80
 Val His Leu Ala Val Glu Phe Phe Asn Leu Thr His Leu Pro Ala Asn
 85 90 95
 Leu Leu Gln Gly Ala Ser Lys Leu Gln Glu Leu His Leu Ser Ser Asn
 100 105 110
 Gly Leu Glu Ser Leu Ser Pro Glu Phe Leu Arg Pro Val Pro Gln Leu
 115 120 125
 Arg Val Leu Asp Leu Thr Arg Asn Ala Leu Thr Gly Leu Pro Pro Gly
 130 135 140
 Leu Phe Gln Ala Ser Ala Thr Leu Asp Thr Leu Val Leu Lys Glu Asn
 145 150 155 160
 Gln Leu Glu Val Leu Glu
 165 166

<210> 1385

<211> 164

<212>Amino acid

<213> Homo sapiens

 <400> 1385
 Glu Arg Pro Arg Ile Met Asp Leu Ala Gly Leu Leu Lys Ser Gln Phe
 1 5 10 15
 Leu Cys His Leu Val Phe Cys Tyr Val Phe Ile Ala Ser Gly Leu Ile
 20 25 30
 Ile Asn Thr Ile Gln Leu Phe Thr Leu Leu Leu Trp Pro Ile Asn Lys
 35 40 45
 Gln Leu Phe Arg Lys Ile Asn Cys Arg Leu Ser Tyr Cys Ile Ser Ser
 50 55 60
 Gln Leu Val Met Leu Leu Glu Trp Trp Ser Gly Thr Glu Cys Thr Ile
 65 70 75 80
 Phe Thr Asp Pro Arg Ala Tyr Leu Lys Tyr Gly Lys Glu Asn Ala Ile
 85 90 95
 Val Val Leu Asn His Lys Phe Glu Ile Asp Phe Leu Cys Gly Trp Ser
 100 105 110
 Leu Ser Glu Arg Phe Gly Leu Leu Gly Val Ser Gln Lys Cys Ile Pro
 115 120 125
 Pro Cys Leu Thr His Phe Phe Gly Ser Ala Pro Pro Leu Val Phe Leu
 130 135 140
 Leu Leu Val Ile Gln Asn Leu Gln Lys Asn Gln Gln Ser Phe Tyr Leu
 145 150 155 160
 Met Lys Trp Ser
 164

<210> 1386

<211> 289

<212>Amino acid

<213> Homo sapiens

<400> 1386

```

Met Ile Val Phe Gly Trp Ala Val Phe Leu Ala Ser Arg Ser Leu Gly
 1           5           10           15
Gln Gly Leu Leu Leu Thr Leu Glu Glu His Ile Ala His Phe Leu Gly
           20           25           30
Thr Gly Gly Ala Ala Thr Thr Met Gly Asn Ser Cys Ile Cys Arg Asp
           35           40           45
Asp Ser Gly Thr Asp Asp Ser Val Asp Thr Gln Gln Gln Gln Ala Glu
           50           55           60
Asn Ser Ala Val Pro Thr Ala Asp Thr Arg Ser Gln Pro Arg Asp Pro
           65           70           75           80
Val Arg Pro Pro Arg Arg Gly Arg Gly Pro His Glu Pro Arg Arg Lys
           85           90           95
Lys Gln Asn Val Asp Gly Leu Val Leu Asp Thr Leu Ala Val Ile Arg
           100          105          110
Thr Leu Val Asp Asn Asp Gln Glu Pro Pro Tyr Ser Met Ile Thr Leu
           115          120          125
His Glu Met Ala Glu Thr Asp Glu Gly Trp Leu Asp Val Val Gln Ser
           130          135          140
Leu Ile Arg Val Ile Pro Leu Glu Asp Pro Leu Gly Pro Ala Val Ile
           145          150          155          160
Thr Leu Leu Leu Asp Glu Cys Pro Leu Pro Thr Lys Asp Ala Leu Gln
           165          170          175
Lys Leu Thr Glu Ile Leu Asn Leu Asn Gly Glu Val Ala Cys Gln Asp
           180          185          190
Ser Ser His Pro Ala Lys His Arg Asn Thr Ser Ala Val Leu Gly Cys
           195          200          205
Leu Ala Glu Lys Leu Ala Gly Pro Ala Ser Ile Gly Leu Leu Ser Pro
           210          215          220
Gly Ile Leu Glu Tyr Leu Leu Gln Cys Leu Leu Gln Ser His Pro Thr
           225          230          235          240
Val Met Leu Phe Ala Leu Ile Ala Leu Glu Lys Phe Ala Gln Thr Ser
           245          250          255
Glu Asn Lys Leu Thr Ile Ser Glu Ser Ser Ile Ser Asp Arg Leu Val
           260          265          270
Thr Leu Glu Ser Trp Ala Asn Asp Pro Asp Tyr Leu Lys Arg Gln Val
           275          280          285
Gly
289

```

<210> 1387

<211> 320

<212> Amino acid

<213> Homo sapiens

<400> 1387

```

Arg Phe Gly Thr Arg Gly Leu Ala Lys Ser Lys Gly Val Val Leu Met
 1           5           10           15
Ala Leu Cys Ala Leu Thr Arg Ala Leu Arg Ser Leu Asn Leu Ala Pro
           20           25           30
Pro Thr Val Ala Ala Pro Ala Pro Ser Leu Phe Pro Ala Ala Gln Met
           35           40           45
Met Asn Asn Gly Leu Leu Gln Gln Pro Ser Ala Leu Met Leu Leu Pro
           50           55           60
Cys Arg Pro Val Leu Thr Ser Val Ala Leu Asn Ala Asn Phe Val Ser
           65           70           75           80
Trp Lys Ser Arg Thr Lys Tyr Thr Ile Thr Pro Val Lys Met Arg Lys
           85           90           95

```

```

Ser Gly Gly Arg Asp His Thr Gly Arg Ile Arg Val His Gly Ile Gly
      100      105      110
Gly Gly His Lys Gln Arg Tyr Arg Met Ile Asp Phe Leu Arg Phe Arg
      115      120      125
Pro Glu Glu Thr Lys Ser Gly Pro Phe Glu Glu Lys Val Ile Gln Val
      130      135      140
Arg Tyr Asp Pro Cys Arg Ser Ala Asp Ile Ala Leu Val Ala Gly Gly
      145      150      155      160
Ser Arg Lys Arg Trp Ile Ile Ala Thr Glu Asn Met Gln Ala Gly Asp
      165      170      175
Thr Ile Leu Asn Ser Asn His Ile Gly Arg Met Ala Val Ala Ala Arg
      180      185      190
Glu Gly Asp Ala His Pro Leu Gly Ala Leu Pro Val Gly Thr Leu Ile
      195      200      205
Asn Asn Val Glu Ser Glu Pro Gly Arg Gly Ala Gln Tyr Ile Arg Ala
      210      215      220
Ala Gly Thr Cys Gly Val Leu Leu Arg Lys Val Asn Gly Thr Ala Ile
      225      230      235      240
Ile Gln Leu Pro Ser Lys Arg Gln Met Gln Val Leu Glu Thr Cys Val
      245      250      255
Ala Thr Val Gly Arg Val Ser Asn Val Asp His Asn Lys Arg Val Ile
      260      265      270
Gly Lys Ala Gly Arg Asn Arg Trp Leu Gly Lys Arg Pro Asn Ser Gly
      275      280      285
Arg Trp His Arg Lys Gly Gly Trp Ala Gly Arg Lys Ile Arg Pro Leu
      290      295      300
Pro Pro Met Lys Ser Tyr Val Lys Leu Pro Ser Ala Ser Ala Gln Ser
      305      310      315      320

```

<210> 1388

<211> 140

<212>Amino acid

<213> Homo sapiens

<400> 1388

```

Pro Val Gln Gly Ala Arg Cys Trp Leu Asp Ala Arg Arg Asn Val Arg
  1      5      10      15
Val Phe Ser Gly Val Cys Cys Gly Cys Gly Ile His Gly Tyr Trp Ala
      20      25      30
Glu Pro Cys Gly Gly Cys Gly Ala Met Glu Gly Leu Arg Ser Ser Val
      35      40      45
Glu Leu Asp Pro Glu Leu Thr Pro Gly Lys Leu Asp Glu Glu Met Val
      50      55      60
Gly Leu Pro Pro His Asp Ala Ser Pro Gln Val Thr Phe His Ser Leu
      65      70      75      80
Asp Gly Lys Thr Val Val Cys Pro His Phe Met Gly Leu Leu Leu Gly
      85      90      95
Leu Leu Leu Leu Leu Thr Leu Ser Val Arg Asn Gln Leu Cys Val Arg
      100      105      110
Gly Glu Arg Gln Leu Ala Glu Thr Leu His Ser Gln Val Lys Glu Lys
      115      120      125
Ser Gln Leu Ile Gly Lys Lys Thr Asp Cys Arg Asp
      130      135      140

```

<210> 1389

<211> 448

<212>Amino acid
<213> Homo sapiens

<400> 1389

Gly	Ala	Arg	Gly	Arg	Pro	Leu	Ala	Glu	Thr	Trp	Pro	Phe	Leu	Thr	Ala
1				5					10					15	
Pro	Val	Leu	Pro	Gly	Gln	Leu	Gln	Ile	Thr	Glu	Pro	Thr	Met	Ala	Glu
			20					25					30		
Lys	Gly	Asp	Cys	Ile	Ala	Ser	Val	Tyr	Gly	Tyr	Asp	Leu	Gly	Gly	Arg
		35					40					45			
Phe	Val	Asp	Phe	Gln	Pro	Leu	Gly	Phe	Gly	Val	Asn	Gly	Leu	Val	Leu
	50					55					60				
Ser	Ala	Val	Asp	Ser	Arg	Ala	Cys	Arg	Lys	Val	Ala	Val	Lys	Lys	Ile
	65				70					75					80
Ala	Leu	Ser	Asp	Ala	Arg	Ser	Met	Lys	His	Ala	Leu	Arg	Glu	Ile	Lys
			85						90					95	
Ile	Ile	Arg	Arg	Leu	Asp	His	Asp	Asn	Ile	Val	Lys	Val	Tyr	Glu	Val
			100					105					110		
Leu	Gly	Pro	Lys	Gly	Thr	Asp	Leu	Gln	Gly	Glu	Leu	Phe	Lys	Phe	Ser
	115						120					125			
Val	Ala	Tyr	Ile	Val	Gln	Glu	Tyr	Met	Glu	Thr	Asp	Leu	Ala	Arg	Leu
	130					135					140				
Leu	Glu	Gln	Gly	Thr	Leu	Ala	Glu	Glu	His	Ala	Lys	Leu	Phe	Met	Tyr
	145				150					155					160
Gln	Leu	Leu	Arg	Gly	Leu	Lys	Tyr	Ile	His	Ser	Ala	Asn	Val	Leu	His
			165					170						175	
Arg	Asp	Leu	Lys	Pro	Ala	Asn	Ile	Phe	Ile	Ser	Thr	Glu	Asp	Leu	Val
		180						185					190		
Leu	Lys	Ile	Gly	Asp	Phe	Gly	Leu	Ala	Arg	Ile	Val	Asp	Gln	His	Tyr
	195						200					205			
Ser	His	Lys	Gly	Tyr	Leu	Ser	Glu	Gly	Leu	Val	Thr	Lys	Trp	Tyr	Arg
	210					215					220				
Ser	Pro	Arg	Leu	Leu	Leu	Ser	Pro	Asn	Asn	Tyr	Thr	Lys	Ala	Ile	Asp
	225				230					235					240
Met	Trp	Ala	Ala	Gly	Cys	Ile	Leu	Ala	Glu	Met	Leu	Thr	Gly	Arg	Met
			245						250					255	
Leu	Phe	Ala	Gly	Ala	His	Glu	Leu	Glu	Gln	Met	Gln	Leu	Ile	Leu	Glu
		260						265					270		
Thr	Ile	Pro	Val	Ile	Arg	Glu	Glu	Asp	Lys	Asp	Glu	Leu	Leu	Arg	Val
		275				280						285			
Met	Pro	Ser	Phe	Val	Ser	Ser	Thr	Trp	Glu	Val	Lys	Arg	Pro	Leu	Arg
	290				295						300				
Lys	Leu	Leu	Pro	Glu	Val	Asn	Ser	Glu	Ala	Ile	Asp	Phe	Leu	Glu	Lys
	305				310					315					320
Ile	Leu	Thr	Phe	Asn	Pro	Met	Asp	Arg	Leu	Thr	Ala	Glu	Met	Gly	Leu
			325						330					335	
Gln	His	Pro	Tyr	Met	Ser	Pro	Tyr	Ser	Cys	Pro	Glu	Asp	Glu	Pro	Thr
		340						345					350		
Ser	Gln	His	Pro	Phe	Arg	Ile	Glu	Asp	Glu	Ile	Asp	Asp	Ile	Val	Leu
	355						360					365			
Met	Ala	Ala	Asn	Gln	Ser	Gln	Leu	Ser	Asn	Trp	Asp	Thr	Cys	Ser	Ser
	370					375					380				
Arg	Tyr	Pro	Val	Ser	Leu	Ser	Ser	Asp	Leu	Glu	Trp	Arg	Pro	Asp	Arg
	385				390					395					400
Cys	Gln	Asp	Ala	Ser	Glu	Val	Gln	Arg	Asp	Pro	Arg	Ala	Gly	Ser	Ala
			405						410					415	
Pro	Leu	Ala	Glu	Asn	Val	Gln	Val	Asp	Pro	Arg	Lys	Asp	Ser	His	Ser
		420						425					430		
Ser	Ser	Ala	Ser	Cys	Gln	Ala	Gly	Arg	Asn	Gly	Val	Ser	Arg	Tyr	Gln
		435					440					445			448

<210> 1390
 <211> 815
 <212> Amino acid
 <213> Homo sapiens

<400> 1390
 Met Arg Thr Leu Gly Thr Cys Leu Ala Thr Leu Ala Gly Leu Leu Leu
 1 5 10 15
 Thr Ala Ala Gly Glu Thr Phe Ser Gly Gly Cys Leu Phe Asp Glu Pro
 20 25 30
 Tyr Ser Thr Cys Gly Tyr Ser Gln Ser Glu Gly Asp Asp Phe Asn Trp
 35 40 45
 Glu Gln Val Asn Thr Leu Thr Lys Pro Thr Ser Asp Pro Trp Met Pro
 50 55 60
 Ser Gly Ser Phe Met Leu Val Asn Ala Ser Gly Arg Pro Glu Gly Gln
 65 70 75 80
 Arg Ala His Leu Leu Leu Pro Gln Leu Lys Glu Asn Asp Thr His Cys
 85 90 95
 Ile Asp Phe His Tyr Phe Val Ser Ser Lys Ser Asn Ser Pro Pro Gly
 100 105 110
 Leu Leu Asn Val Tyr Val Lys Val Asn Asn Gly Pro Leu Gly Asn Pro
 115 120 125
 Ile Trp Asn Ile Ser Gly Asp Pro Thr Arg Thr Trp Asn Arg Ala Glu
 130 135 140
 Leu Ala Ile Ser Thr Phe Trp Pro Asn Phe Tyr Gln Val Ile Phe Glu
 145 150 155 160
 Val Ile Thr Ser Gly His Gln Gly Tyr Leu Ala Ile Asp Glu Val Lys
 165 170 175
 Val Leu Gly His Pro Cys Thr Arg Thr Pro His Phe Leu Arg Ile Gln
 180 185 190
 Asn Val Glu Val Asn Ala Gly Gln Phe Ala Thr Phe Gln Cys Ser Ala
 195 200 205
 Ile Gly Arg Thr Val Ala Gly Asp Arg Leu Trp Leu Gln Gly Ile Asp
 210 215 220
 Val Arg Asp Ala Pro Leu Lys Glu Ile Lys Val Thr Ser Ser Arg Arg
 225 230 235 240
 Phe Ile Ala Ser Phe Asn Val Val Asn Thr Thr Lys Arg Asp Ala Gly
 245 250 255
 Lys Tyr Arg Cys Met Ile Arg Thr Glu Gly Gly Val Gly Ile Ser Asn
 260 265 270
 Tyr Ala Glu Leu Val Val Lys Glu Pro Pro Val Pro Ile Ala Pro Pro
 275 280 285
 Gln Leu Ala Ser Val Gly Ala Thr Tyr Leu Trp Ile Gln Leu Asn Ala
 290 295 300
 Asn Ser Ile Asn Gly Asp Gly Pro Ile Val Ala Arg Glu Val Glu Tyr
 305 310 315 320
 Cys Thr Ala Ser Gly Ser Trp Asn Asp Arg Gln Pro Val Asp Ser Thr
 325 330 335
 Ser Tyr Lys Ile Gly His Leu Asp Pro Asp Thr Glu Tyr Glu Ile Ser
 340 345 350
 Val Leu Leu Thr Arg Pro Gly Glu Gly Gly Thr Gly Ser Pro Gly Pro
 355 360 365
 Ala Leu Arg Thr Arg Thr Lys Cys Ala Asp Pro Met Arg Gly Pro Arg
 370 375 380
 Lys Leu Glu Val Val Glu Val Lys Ser Arg Gln Ile Thr Ile Arg Trp
 385 390 395 400

Glu Pro Phe Gly Tyr Asn Val Thr Arg Cys His Ser Tyr Asn Leu Thr
 405 410 415
 Val His Tyr Cys Tyr Gln Val Gly Gly Gln Glu Gln Val Arg Glu Glu
 420 425 430
 Val Ser Trp Asp Thr Glu Asn Ser His Pro Gln His Thr Ile Thr Asn
 435 440 445
 Leu Ser Pro Tyr Thr Asn Val Ser Val Lys Leu Ile Leu Met Asn Pro
 450 455 460
 Glu Gly Arg Lys Glu Ser Gln Glu Leu Ile Val Gln Thr Asp Glu Asp
 465 470 475 480
 Leu Pro Gly Ala Val Pro Thr Glu Ser Ile Gln Gly Ser Thr Phe Glu
 485 490 495
 Glu Lys Ile Phe Leu Gln Trp Arg Glu Pro Thr Gln Thr Tyr Gly Val
 500 505 510
 Ile Thr Leu Tyr Glu Ile Thr Tyr Lys Ala Val Ser Ser Phe Asp Pro
 515 520 525
 Glu Ile Asp Leu Ser Asn Gln Ser Gly Arg Val Ser Lys Leu Gly Asn
 530 535 540
 Glu Thr His Phe Leu Phe Phe Gly Leu Tyr Pro Gly Thr Thr Tyr Ser
 545 550 555 560
 Phe Thr Ile Arg Ala Ser Thr Ala Lys Gly Phe Gly Pro Pro Ala Thr
 565 570 575
 Asn Gln Phe Thr Thr Lys Ile Ser Ala Pro Ser Met Pro Ala Tyr Glu
 580 585 590
 Leu Glu Thr Pro Leu Asn Gln Thr Asp Asn Thr Val Thr Val Met Leu
 595 600 605
 Lys Pro Ala His Ser Arg Gly Ala Pro Val Ser Val Tyr Gln Ile Val
 610 615 620
 Val Glu Glu Glu Arg Pro Arg Arg Thr Lys Lys Thr Thr Glu Ile Leu
 625 630 635 640
 Lys Cys Tyr Pro Val Pro Ile His Phe Gln Asn Ala Ser Leu Leu Asn
 645 650 655
 Ser Gln Tyr Tyr Phe Ala Ala Glu Phe Pro Ala Asp Ser Leu Gln Ala
 660 665 670
 Ala Gln Pro Phe Thr Ile Gly Asp Asn Lys Thr Tyr Asn Gly Tyr Trp
 675 680 685
 Asn Thr Pro Leu Leu Pro Tyr Lys Ser Tyr Arg Ile Tyr Phe Gln Ala
 690 695 700
 Ala Ser Arg Ala Asn Gly Glu Thr Lys Ile Asp Cys Val Gln Val Ala
 705 710 715 720
 Thr Lys Gly Ala Ala Thr Pro Lys Pro Val Pro Glu Pro Glu Lys Gln
 725 730 735
 Thr Asp His Thr Val Lys Ile Ala Gly Val Ile Ala Gly Ile Leu Leu
 740 745 750
 Phe Val Ile Ile Phe Leu Gly Val Val Leu Val Met Lys Lys Arg Leu
 755 760 765
 Tyr Lys His Gly Ala Ser Ile Cys Ser Ala Ser Gly Glu Ala Ser Gly
 770 775 780
 Ser Phe Gln Ser Trp Arg Lys Ala Lys His Lys Gln Ala Cys Pro Met
 785 790 795 800
 Ala Arg Ala Gly Ala Arg Glu Arg Ala Gly Gly Cys Leu Lys Leu
 805 810 815

<210> 1391

<211> 142

<212> Amino acid

<213> Homo sapiens

<400> 1391

Gly Ile Arg Gln Leu Leu Gln Leu Ser Arg Ala Ser Met Ala Ala Arg
 1 5 10 15
 Lys Ser Trp Thr Ala Leu Arg Leu Cys Ala Thr Val Val Val Leu Asp
 20 25 30
 Met Val Val Cys Lys Gly Phe Val Gln Asp Leu Asp Glu Ser Phe Lys
 35 40 45
 Glu Asn Arg Asn Asp Asp Ile Trp Leu Val His Phe Tyr Ala Pro Trp
 50 55 60
 Cys Gly His Cys Lys Lys Leu Glu Pro Ile Trp Asn Glu Ala Gly Leu
 65 70 75 80
 Glu Met Lys Ser Ile Gly Ser Pro Val Lys Ala Gly Lys Met Asp Ala
 85 90 95
 Thr Ser Tyr Ser Ser Ile Ala Ser Glu Phe Gly Val Arg Gly Tyr Pro
 100 105 110
 Thr Ile Lys Leu Ala Leu Ile Arg Pro Leu Pro Ser Gln Gln Met Phe
 115 120 125
 Glu His Met His Lys Arg His Arg Val Phe Phe Val Tyr Val
 130 135 140 142

<210> 1392

<211> 282

<212>Amino acid

<213> Homo sapiens

<400> 1392

Gly Leu Val Ile Val Ile Ser His Phe Ser Pro Ser Pro Gly Leu Leu
 1 5 10 15
 Pro Ala Thr Gln Ser Pro Ala Met Ser Asp Pro Ile Thr Leu Asn Val
 20 25 30
 Gly Gly Lys Leu Tyr Thr Thr Ser Leu Ala Thr Leu Thr Ser Phe Pro
 35 40 45
 Asp Ser Met Leu Gly Ala Met Phe Ser Gly Lys Met Pro Thr Lys Arg
 50 55 60
 Asp Ser Gln Gly Asn Cys Phe Ile Asp Arg Asp Gly Lys Val Phe Arg
 65 70 75 80
 Tyr Ile Leu Asn Phe Leu Arg Thr Ser His Leu Asp Leu Pro Glu Asp
 85 90 95
 Phe Gln Glu Met Gly Leu Leu Arg Arg Glu Ala Asp Phe Tyr Gln Val
 100 105 110
 Gln Pro Leu Ile Glu Ala Leu Gln Glu Lys Glu Val Glu Leu Ser Lys
 115 120 125
 Ala Glu Lys Asn Ala Met Leu Asn Ile Thr Leu Asn Gln Arg Val Gln
 130 135 140
 Thr Val His Phe Thr Val Arg Glu Ala Pro Gln Ile Tyr Ser Leu Ser
 145 150 155 160
 Ser Ser Ser Met Glu Val Phe Asn Ala Asn Ile Phe Ser Thr Ser Cys
 165 170 175
 Leu Phe Leu Lys Leu Leu Gly Ser Lys Leu Phe Tyr Cys Ser Asn Gly
 180 185 190
 Asn Leu Ser Ser Ile Thr Ser His Leu Gln Asp Pro Asn His Leu Thr
 195 200 205
 Leu Asp Trp Val Ala Asn Val Glu Gly Leu Pro Glu Glu Glu Tyr Thr
 210 215 220
 Lys Gln Asn Leu Lys Arg Leu Trp Val Val Pro Ala Asn Lys Gln Ile
 225 230 235 240
 Asn Ser Phe Gln Val Phe Val Glu Glu Val Leu Lys Ile Ala Leu Ser
 245 250 255
 Asp Gly Phe Cys Ile Asp Ser Ser His Pro His Ala Leu Asp Phe Met
 260 265 270

<210> 1393
 <211> 308
 <212>Amino acid
 <213> Homo sapiens

<400> 1393
 Ser Cys Ala Asp Asn Leu Val Ala Ala Ser Gly Gly Cys Trp Phe Val
 1 5 10 15
 Leu Gly Glu Arg Arg Ala Gly Ser Leu Leu Ser Ala Ser Tyr Gly Thr
 20 25 30
 Phe Ala Met Pro Gly Met Val Leu Phe Gly Arg Arg Trp Ala Ile Ala
 35 40 45
 Ser Asp Asp Leu Val Phe Pro Gly Phe Phe Glu Leu Val Val Arg Val
 50 55 60
 Leu Trp Trp Ile Gly Ile Leu Thr Leu Tyr Leu Met His Arg Gly Lys
 65 70 75 80
 Leu Asp Cys Ala Gly Gly Ala Leu Leu Ser Ser Tyr Leu Ile Val Leu
 85 90 95
 Met Ile Leu Leu Ala Val Val Ile Cys Thr Val Ser Ala Ile Met Cys
 100 105 110
 Val Ser Met Arg Gly Thr Ile Cys Asn Pro Gly Pro Arg Lys Ser Met
 115 120 125
 Ser Lys Leu Leu Tyr Ile Arg Leu Ala Leu Phe Phe Pro Glu Met Val
 130 135 140
 Trp Ala Ser Leu Gly Ala Ala Trp Val Ala Asp Gly Val Gln Cys Asp
 145 150 155 160
 Arg Thr Val Val Asn Gly Ile Ile Ala Thr Val Val Val Ser Trp Ile
 165 170 175
 Ile Ile Ala Ala Thr Val Val Ser Ile Ile Ile Val Phe Asp Pro Leu
 180 185 190
 Gly Gly Lys Met Ala Pro Tyr Ser Ser Ala Gly Pro Ser His Leu Asp
 195 200 205
 Ser His Asp Ser Ser Gln Leu Leu Asn Gly Leu Lys Thr Ala Ala Thr
 210 215 220
 Ser Val Trp Glu Thr Arg Ile Lys Leu Leu Cys Cys Cys Ile Gly Lys
 225 230 235 240
 Asp Asp His Thr Arg Val Ala Phe Ser Ser Thr Ala Glu Leu Phe Ser
 245 250 255
 Thr Tyr Phe Ser Asp Thr Asp Leu Val Pro Ser Asp Ile Ala Ala Gly
 260 265 270
 Leu Ala Leu Leu His Gln Gln Gln Asp Asn Ile Arg Asn Asn Gln Asp
 275 280 285
 Leu Pro Arg Trp Ser Ala Met Pro Gln Gly Ala Pro Arg Lys Leu Ile
 290 295 300
 Trp Met Gln Asn
 305 308

<210> 1394
 <211> 238
 <212>Amino acid
 <213> Homo sapiens

<400> 1394

```

Phe Arg Ala Ala Thr Ala Ala Ala Lys Gly Asn Gly Gly Gly Gly Gly
 1           5           10           15
Arg Ala Gly Ala Gly Asp Ala Ser Gly Thr Arg Lys Lys Lys Gly Pro
          20          25          30
Gly Pro Leu Ala Thr Ala Tyr Leu Val Ile Tyr Asn Val Val Met Thr
          35          40          45
Ala Gly Trp Leu Val Ile Ala Val Gly Leu Val Arg Ala Tyr Leu Ala
          50          55          60
Lys Gly Ser Tyr His Ser Leu Tyr Tyr Ser Ile Glu Lys Pro Leu Lys
          65          70          75          80
Phe Phe Gln Thr Gly Ala Leu Leu Glu Ile Leu His Cys Ala Ile Gly
          85          90          95
Ile Val Pro Ser Ser Val Val Leu Thr Ser Phe Gln Val Met Ser Arg
          100         105         110
Val Phe Leu Ile Trp Ala Val Thr His Ser Val Lys Glu Val Gln Ser
          115         120         125
Glu Asp Ser Val Leu Phe Val Ile Ala Trp Thr Ile Thr Glu Ile Ile
          130         135         140
Arg Tyr Ser Phe Tyr Thr Phe Ser Leu Leu Asn His Leu Pro Tyr Leu
          145         150         155         160
Ile Lys Arg Ala Arg Tyr Thr Leu Phe Ile Val Leu Tyr Pro Met Gly
          165         170         175
Val Ser Gly Glu Leu Leu Thr Ile Tyr Ala Ala Leu Pro Phe Val Arg
          180         185         190
Gln Ala Gly Leu Tyr Ser Ile Ser Leu Pro Asn Ser Thr Lys Lys Ile
          195         200         205
Phe Leu Ile Ser Gln Val Trp Trp His Met Leu Ala Val Ser Ala Asp
          210         215         220
Ala Lys Ala Ala Glu Met Pro Ala Val Leu Lys Pro Gly Pro
          225         230         235         238

```

<210> 1395

<211> 231

<212>Amino acid

<213> Homo sapiens

<400> 1395

```

Met Leu Thr Gly Val Gly Cys Leu Val Ser Ser Glu Ser Leu Ser Cys
 1           5           10           15
Val Gln Cys Asn Ser Trp Glu Lys Ser Cys Val Asn Ser Ile Ala Ser
          20          25          30
Glu Cys Pro Ser His Ala Asn Thr Ser Cys Ile Ser Ser Ser Ala Ser
          35          40          45
Ser Ser Leu Glu Thr Pro Val Arg Leu Tyr Gln Asn Met Phe Cys Ser
          50          55          60
Ala Glu Asn Cys Ser Glu Glu Thr His Ile Thr Ala Phe Thr Val His
          65          70          75          80
Val Ser Ala Glu Glu His Phe His Phe Val Ser Gln Cys Cys Glu Gly
          85          90          95
Lys Glu Cys Ser Asn Thr Ser Asp Ala Leu Asp Pro Pro Leu Lys Asn
          100         105         110
Val Ser Ser Asn Ala Glu Cys Pro Ala Cys Tyr Glu Ser Asn Gly Thr
          115         120         125
Ser Cys Arg Gly Lys Pro Trp Lys Cys Tyr Glu Glu Gln Cys Val
          130         135         140
Phe Leu Val Ala Glu Leu Lys Asn Asp Ile Glu Ser Lys Ser Leu Val
          145         150         155         160

```

Leu Lys Gly Cys Ser Asn Val Ser Asn Ala Thr Cys Gln Phe Leu Ser
 165 170 175
 Gly Glu Asn Lys Thr Leu Gly Gly Val Ile Phe Arg Lys Phe Glu Cys
 180 185 190
 Ala Asn Val Asn Ser Leu Thr Pro Thr Ser Ala Pro Thr Thr Ser His
 195 200 205
 Asn Val Gly Ser Lys Ala Ser Leu Tyr Leu Leu Ala Leu Ala Ser Leu
 210 215 220
 Leu Leu Arg Gly Leu Leu Pro
 225 230 231

<210> 1396
 <211> 216
 <212> Amino acid
 <213> Homo sapiens

<400> 1396
 Val Pro Ala Arg Arg Arg Ala Met Glu Ile Gly Thr Glu Ile Ser Arg
 1 5 10 15
 Lys Ile Arg Ser Ala Ile Lys Gly Lys Leu Gln Glu Leu Gly Ala Tyr
 20 25 30
 Val Asp Glu Glu Leu Pro Asp Tyr Ile Met Val Met Val Ala Asn Lys
 35 40 45
 Lys Ser Gln Asp Gln Met Thr Glu Asp Leu Ser Leu Phe Leu Gly Asn
 50 55 60
 Asn Thr Ile Arg Phe Thr Val Trp Leu His Gly Val Leu Asp Lys Leu
 65 70 75 80
 Arg Ser Val Thr Thr Glu Pro Ser Ser Leu Lys Ser Ser Asp Thr Asn
 85 90 95
 Ile Phe Asp Ser Asn Val Pro Ser Asn Lys Ser Asn Phe Ser Arg Gly
 100 105 110
 Asp Glu Arg Arg His Glu Ala Ala Val Pro Pro Leu Ala Ile Pro Ser
 115 120 125
 Ala Arg Pro Glu Lys Arg Asp Ser Arg Val Ser Thr Ser Ser Gln Glu
 130 135 140
 Ser Lys Thr Thr Asn Val Arg Gln Thr Tyr Asp Asp Gly Ala Ala Thr
 145 150 155 160
 Arg Leu Met Ser Thr Val Lys Pro Leu Arg Glu Pro Ala Pro Ser Glu
 165 170 175
 Asp Val Ile Asp Ile Lys Pro Glu Pro Asp Asp Leu Ile Asp Glu Asp
 180 185 190
 Leu Asn Phe Val Gln Glu Lys Pro Leu Ser Gln Lys Lys Pro Thr Val
 195 200 205
 Thr Leu Thr Tyr Gly Ser Ser Arg
 210 215 216

<210> 1397
 <211> 135
 <212> Amino acid
 <213> Homo sapiens

<400> 1397
 Ala Ser Arg Val Leu Ala Ala Val Met Gly Leu Pro Trp Gly Gln Pro
 1 5 10 15

His Leu Gly Leu Gln Met Leu Leu Leu Ala Leu Asn Trp Leu Arg Pro
 20 25 30
 Ser Leu Ser Leu Glu Leu Val Pro Tyr Thr Pro Gln Ile Thr Ala Trp
 35 40 45
 Asp Leu Glu Gly Lys Val Thr Ala Thr Thr Phe Ser Leu Glu Gln Pro
 50 55 60
 Arg Cys Val Phe Asp Gly Leu Ala Ser Ala Ser Asp Thr Val Trp Leu
 65 70 75 80
 Val Val Ala Phe Ser Asn Ala Ser Arg Gly Phe Gln Asn Pro Glu Thr
 85 90 95
 Leu Ala Asp Ile Pro Ala Ser Pro Gln Leu Leu Thr Asp Gly His Tyr
 100 105 110
 Met Thr Leu Pro Leu Ser Pro Asp Gln Leu Pro Cys Gly Asp Pro Met
 115 120 125
 Ala Gly Ser Gly Ser Ala Pro
 130 135

<210> 1398

<211> 41

<212> Amino acid

<213> Homo sapiens

<400> 1398

Asn Ser Leu Asn Asn Phe Phe Phe Glu Thr Glu Ser Cys Cys Val Ala
 1 5 10 15
 Gln Ala Gly Val Gln Trp Arg Asp Leu Gly Ser Leu Gln Ala Pro Pro
 20 25 30
 Pro Gly Phe Lys Arg Phe Ser Cys Leu
 35 40 41

<210> 1399

<211> 151

<212> Amino acid

<213> Homo sapiens

<400> 1399

Lys Ser Leu Pro Leu Gln Lys His Pro Lys Pro Ser Cys Gln Glu Asp
 1 5 10 15
 Gln Gly Leu Gly Arg Gly Ser Leu Ser Gly His Ser Pro Leu Thr Leu
 20 25 30
 Leu Thr Phe Leu Thr Ser Cys Ala Leu Gly Asp Gln Gln Leu Leu Pro
 35 40 45
 Pro Arg Thr Ser Gly Ser Leu Cys Gln Glu Ser Met Ser Glu Gln Ser
 50 55 60
 Cys Gln Met Ser Glu Leu Arg Leu Leu Leu Leu Gly Lys Cys Arg Ser
 65 70 75 80
 Gly Lys Ser Ala Thr Gly Asn Ala Ile Leu Gly Lys His Val Phe Lys
 85 90 95
 Ser Lys Phe Ser Asp Gln Thr Val Ile Lys Met Cys Gln Arg Glu Ser
 100 105 110
 Trp Val Leu Arg Glu Arg Lys Val Val Val Ile Asp Thr Pro Asp Leu
 115 120 125
 Phe Ser Ser Ile Ala Cys Ala Glu Asp Lys Gln Arg Asn Ile Gln His
 130 135 140

Leu Leu Glu Leu Ser Ala Pro
145 150 151

<210> 1400
<211> 324
<212> Amino acid
<213> Homo sapiens

<400> 1400
Phe Val Glu Thr Thr Val Ser Val Gln Ser Ala Glu Ser Ser Asp Ala
1 5 10 15
Leu Ser Trp Ser Arg Leu Pro Arg Ala Leu Ala Ser Val Gly Pro Glu
20 25 30
Glu Ala Arg Ser Gly Ala Pro Val Gly Gly Arg Trp Gln Leu Ser
35 40 45
Asp Arg Val Glu Gly Gly Ser Pro Thr Leu Gly Leu Leu Gly Gly Ser
50 55 60
Pro Ser Ala Gln Pro Gly Thr Gly Asn Val Glu Ala Gly Ile Pro Ser
65 70 75 80
Gly Arg Met Leu Glu Pro Leu Pro Cys Trp Asp Ala Ala Lys Asp Leu
85 90 95
Lys Glu Pro Gln Cys Pro Pro Gly Asp Arg Val Gly Val Gln Pro Gly
100 105 110
Asn Ser Arg Val Trp Gln Gly Thr Met Glu Lys Ala Gly Leu Ala Trp
115 120 125
Thr Arg Gly Thr Gly Val Gln Ser Glu Gly Thr Trp Glu Ser Gln Arg
130 135 140
Gln Asp Ser Asp Ala Leu Pro Ser Pro Glu Leu Leu Pro Gln Asp Gln
145 150 155 160
Asp Lys Pro Phe Leu Arg Lys Ala Cys Ser Pro Ser Asn Ile Pro Ala
165 170 175
Val Ile Ile Thr Asp Met Gly Thr Gln Glu Asp Gly Ala Leu Glu Glu
180 185 190
Thr Gln Gly Ser Pro Arg Gly Asn Leu Pro Leu Arg Lys Leu Ser Ser
195 200 205
Ser Ser Ala Ser Ser Thr Gly Phe Ser Ser Ser Tyr Glu Asp Ser Glu
210 215 220
Glu Asp Ile Ser Ser Asp Pro Glu Arg Thr Leu Asp Pro Asn Ser Ala
225 230 235 240
Phe Leu His Thr Leu Asp Gln Gln Lys Pro Arg Val Val Glu Ser Arg
245 250 255
Ser Val Thr Gln Ala Gly Val Gln Trp His Asp Ile Gly Ser Leu Gln
260 265 270
Pro Leu Pro Pro Trp Ile Gln Ala Ile Leu His Ala Ser Ala Phe Arg
275 280 285
Ile Ala Gly Thr Thr Gly Ala Cys His His Ala Arg Ile Ile Phe Gly
290 295 300
Phe Leu Val Glu Arg Gly Phe His His Val Gly Gln Asp Gly Leu Tyr
305 310 315 320
Leu Leu Ile Leu
324

<210> 1401
<211> 76
<212> Amino acid
<213> Homo sapiens

<220>

<221> misc_feature
 <222> (1)...(76)
 <223> X = any amino acid or stop code

<400> 1401
 Lys Ile Cys Ser Ser Tyr Phe Leu Arg Ile Ile Cys Ile Leu Gln Lys
 1 5 10 15
 Glu Ala Gln Glu Ala Ser Asn Leu Tyr Thr Ser Cys Asp Phe Phe Ser
 20 25 30
 Pro Ala Phe Tyr Phe Val Ile Tyr Arg Leu Tyr Asn Phe Lys Ile His
 35 40 45
 Trp Pro Gly Ala Val Ala His Thr Tyr Ser Pro Ser Thr Leu Gly Gly
 50 55 60
 Arg Gly Arg Trp Val Thr Xaa Gly Arg Glu Phe Met
 65 70 75 76

<210> 1402
 <211> 102
 <212>Amino acid
 <213> Homo sapiens

<400> 1402
 Leu Ile Leu Ser Leu Pro Leu Leu Tyr Gly His Leu Lys Ser Tyr Thr
 1 5 10 15
 Phe Pro Ser Glu His Tyr Leu His Leu Leu Gln Thr Phe Ala Thr Phe
 20 25 30
 Asn Lys Tyr Leu Asn Val Cys Val Leu Ile Phe Ile His His Lys Pro
 35 40 45
 Val Val Pro Ala Ile Gln Gly Thr Asn Val Gly Gly Ser Leu Glu Pro
 50 55 60
 Arg Arg Leu Arg Leu Gln Gln Ala Met Ile Val Pro Leu His Phe Gly
 65 70 75 80
 Leu Gly Asn Arg Val Arg Pro Cys Leu Lys Lys Gln Gln Gln Gln Gln
 85 90 95
 Gln Gln Gln Gln Lys Lys
 100 102

<210> 1403
 <211> 124
 <212>Amino acid
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(124)
 <223> X = any amino acid or stop code

<400> 1403
 Arg Met Glu Thr Lys Pro Val Ile Thr Cys Leu Lys Thr Leu Leu Ile
 1 5 10 15

```

Ile Tyr Ser Phe Val Phe Trp Ile Thr Gly Val Ile Leu Leu Ala Ala
      20      25      30
Gly Val Trp Gly Lys Leu Thr Leu Gly Ser Tyr Ile Ser Leu Ile Ala
      35      40      45
Glu Asn Ser Thr Tyr Ala Pro Tyr Val Leu Ile Val Thr Gly Thr Thr
      50      55      60
Ile Val Ala Tyr Pro Leu Val Xaa Phe Phe Phe Ser Tyr Ser Ser Gly
      65      70      75      80
Phe Ser Tyr Ile Leu Ala Val Arg Leu Ile Ala Gly Ile Ala Leu Val
      85      90      95
Tyr Asn Tyr Ile Pro Arg Ser Ser Ser Arg Ala Leu Val Arg Leu Val
      100      105      110
Val Leu Leu Arg Phe Leu Leu Ser Arg His Pro Ser
      115      120      124

```

<210> 1404

<211> 136

<212>Amino acid

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(136)

<223> X = any amino acid or stop code

<400> 1404

```

Asn Ala Glu His Pro Gly Met Asp Arg His Asp Leu Cys Gln Lys Ala
  1      5      10      15
Lys Leu Ala Glu His Ala Glu Arg Asp Asp Asp Met Ala Ala Cys Met
      20      25      30
Lys Thr Val Thr Asp Gln Gly Ala Glu Leu Ser Asn Glu Glu Arg Asn
      35      40      45
Leu Leu Ser Asp Ala His Thr Asn Ala Val Xaa Ala Arg Arg Ser Ser
      50      55      60
Trp Met Gly Ala Xaa Arg Ile Glu Gln Lys Thr Glu Gly Ala Asp Thr
      65      70      75      80
Gln Gln Gln Met Ala Pro Asp Cys Arg Glu Ile Phe Ala Thr Glu Leu
      85      90      95
Arg Asp Ile Cys Asp Asp Val Leu Ser Leu Leu Glu Lys Leu Leu Ile
      100      105      110
Pro Asn Ala Ser His Ala Xaa Ser Leu Val Tyr Tyr Leu His Met Ile
      115      120      125
Gly Asp Tyr Tyr Arg Tyr Trp Leu
      130      135 136

```

<210> 1405

<211> 110

<212>Amino acid

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(110)

<223> X = any amino acid or stop code

MISSING AT THE TIME OF PUBLICATION

Gly Asn Asp Tyr Ser Leu Gly Leu Thr Pro Thr Gly Val Leu Val Phe
 85 90 95
 Glu Gly Asp Thr Lys Ile Gly Leu Phe Phe Trp Pro Lys Ile Thr Arg
 100 105 110
 Leu Asp Phe Lys Lys Asn Lys Leu Thr Leu Val Val Val Glu Asp Asp
 115 120 125
 Asp Gln Gly Lys Glu Gln Glu His Thr Phe Val Phe Arg Leu Asp His
 130 135 140
 Pro Lys Ala Cys Lys His Leu Trp Lys Cys Ala Val Glu His His Ala
 145 150 155 160
 Phe Phe Arg Leu Arg Gly Pro Val Gln Lys Ser Ser His Arg Ser Gly
 165 170 175
 Phe Ile Arg Leu Gly Ser Arg Phe Arg Tyr Ser Gly Lys Thr Glu Tyr
 180 185 190
 Gln Thr Thr Lys Thr Asn Lys Ala Arg Arg Ser Thr Ser Phe Glu Arg
 195 200 205
 Arg Pro Ser Lys Arg Tyr Ser Arg Arg Thr Leu Gln Met Lys Ala Cys
 210 215 220
 Ala Thr Lys Pro Glu Glu Leu Ser Val His Asn Asn Val Ser Thr Gln
 225 230 235 240
 Ser Asn Gly Ser Gln Gln Ala Trp Gly Met Arg Ser Ala Leu Pro Val
 245 250 255
 Ser Pro Ser Ile Ser Ser Ala Pro Val Pro Val Glu Ile Glu Asn Leu
 260 265 270
 Pro Gln Ser Pro Gly Thr Asp Gln His Asp Arg Lys Trp Leu Ser Ala
 275 280 285
 Ala Ser Asp Cys Cys Gln Arg Gly Gly Asn Gln Trp Asn Thr Arg Ala
 290 295 300
 Leu
 305

<210> 1408

<211> 92

<212>Amino acid

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(92)

<223> X = any amino acid or stop code

<400> 1408

Ala Thr Ala Pro Gly Leu Phe Asn Phe Phe Xaa Phe Leu Phe Gln Cys
 1 5 10 15
 Arg Glu Glu His Lys Lys Lys Asn Pro Glu Val Pro Val Asn Phe Ala
 20 25 30
 Glu Phe Ser Lys Lys Cys Ser Gly Arg Trp Lys Thr Met Ser Ser Lys
 35 40 45
 Glu Lys Phe Lys Phe Gly Glu Met Ala Lys Ala Asp Glu Val Cys Tyr
 50 55 60
 Asp Arg Glu Met Lys Asp Tyr Gly Pro Ala Lys Gly Gly Lys Lys Lys
 65 70 75 80
 Asp Pro Asn Ala Pro Lys Arg Pro Pro Ser Gly Phe
 85 90 92

<210> 1409

<211> 169

<212>Amino acid

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(169)

<223> X = any amino acid or stop code

<400> 1409

```

Ala Glu Gly Leu Gly Ser Trp Ala Val Trp Ala Gly Leu Gly Trp Ala
 1          5          10          15
Gly Arg His Met Glu Ala Gly Gly Ala Thr Gly Ala Leu Gly Val Gly
          20          25          30
Ser Lys Leu Pro Ser Ala Phe Cys Phe Pro Gly Ser Ser Val Ala Met
          35          40          45
Asp Met Phe Gln Lys Val Glu Lys Ile Gly Glu Gly Thr Tyr Gly Val
          50          55          60
Val Tyr Lys Ala Lys Asn Arg Glu Thr Gly Gln Leu Val Ala Leu Lys
          65          70          75          80
Lys Ile Arg Leu Asp Leu Xaa Val Leu Gly Arg Pro Leu Ser Tyr Pro
          85          90          95
Pro Trp Ala Ile Thr Thr Trp Ala Leu Pro Asp Pro Phe Pro Leu Ser
          100          105          110
Trp Ser Pro Arg Leu Thr Pro Leu Gly Ala Ala Gln Gln Pro Leu Pro
          115          120          125
Val Leu Ser Pro Val His Cys Leu Leu Thr Ser Leu Cys Arg Gly Pro
          130          135          140
Asp Cys Gly Val Trp Trp Met Thr Cys Gln Gly Ala Gln Val Ser Ile
          145          150          155          160
Ala Gly Ala Leu Val Ile Leu Trp Gly
          165          169

```

<210> 1410

<211> 146

<212>Amino acid

<213> Homo sapiens

<400> 1410

```

Leu Cys Val Ser Val Leu Cys Ser Phe Ser Tyr Leu Gln Asn Gly Trp
 1          5          10          15
Thr Ala Ser Asp Pro Val His Gly Tyr Trp Phe Arg Ala Gly Asp His
          20          25          30
Val Ser Arg Asn Ile Pro Val Ala Thr Asn Asn Pro Val Arg Ala Val
          35          40          45
Gln Glu Glu Thr Arg Asp Arg Phe His Leu Leu Gly Asp Pro Gln Asn
          50          55          60
Lys Asp Cys Thr Leu Ser Ile Arg Asp Thr Arg Glu Ser Asp Ala Gly
          65          70          75          80
Thr Tyr Val Phe Cys Val Glu Arg Gly Asn Met Lys Trp Asn Tyr Lys
          85          90          95
Tyr Asp Gln Leu Ser Val Asn Val Thr Ala Ser Gln Asp Leu Leu Ser
          100          105          110
Arg Tyr Arg Leu Glu Val Pro Glu Ser Val Thr Val Gln Glu Gly Leu
          115          120          125
Cys Val Ser Val Pro Trp Gln Cys Pro Leu Pro Pro Leu Gln Leu Asp
          130          135          140

```

Cys Leu
145 146

<210> 1411
<211> 250
<212>Amino acid
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(250)
<223> X = any amino acid or stop code

<400> 1411
Gln Leu Gln Leu Cys Gln Asn Cys Thr Lys Arg Gly Glu Cys His Cys
1 5 10 15
Val Pro Phe Asp Thr Tyr Ile Lys Thr Lys Lys Glu Lys Lys Arg Leu
20 25 30
Ser Val Leu Pro Pro Thr Arg Leu Met Glu Ala Arg Phe Ser Pro Ile
35 40 45
Asn Gln Ile Leu Pro Trp Cys Arg Gln Asp Leu Ala Ile Ser Ile Ser
50 55 60
Lys Ala Ile Asn Thr Gln Glu Ala Pro Val Lys Glu Lys His Ala Arg
65 70 75 80
Arg Ile Ile Leu Gly Thr His His Glu Lys Gly Ala Phe Thr Phe Trp
85 90 95
Ser Tyr Ala Ile Gly Leu Pro Leu Pro Ser Ser Ser Ile Leu Ser Trp
100 105 110
Lys Phe Cys His Val Leu His Lys Val Leu Arg Asp Gly His Pro Asn
115 120 125
Val Leu His Asp Cys Gln Arg Tyr Arg Ser Asn Ile Arg Glu Ile Gly
130 135 140
Asp Leu Trp Gly His Leu His Asp Arg Tyr Gly Gln Leu Val Asn Val
145 150 155 160
Tyr Thr Lys Leu Leu Thr Lys Ile Ser Phe His Leu Lys His Pro
165 170 175
Gln Phe Pro Ala Gly Leu Glu Val Thr Asp Glu Val Leu Glu Lys Ala
180 185 190
Ala Gly Thr Asp Val Asn Asn Met Xaa Val Thr Leu His Gly Tyr Met
195 200 205
Ala Ser Ser Pro Arg Leu Pro His Ser Phe Leu Pro Arg Leu Thr Pro
210 215 220
Arg Arg Pro His Gly Ala Val Gly Leu Asn Glu Ser Val Ala Leu Leu
225 230 235 240
Val Asp Ala His Ala Pro Arg Asp Arg Gly
245 250

<210> 1412
<211> 169
<212>Amino acid
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(169)
<223> X = any amino acid or stop code

```

<400> 1412
Ala Ala Pro His Arg Met Pro Arg Ala Pro His Phe Met Pro Leu Leu
 1           5           10           15
Leu Leu Leu Leu Leu Leu Ser Leu Pro His Thr Gln Ala Ala Phe Pro
 20           25           30
Gln Asp Pro Leu Pro Leu Leu Ile Ser Asp Leu Gln Gly Thr Ser Pro
 35           40           45
Leu Ser Trp Leu Pro Ser Leu Glu Asp Asp Ala Val Ala Ala Xaa Leu
 50           55           60
Gly Leu Asp Phe Gln Arg Phe Leu Thr Leu Asn Arg Thr Leu Leu Val
 65           70           75           80
Ala Ala Arg Asp His Val Phe Ser Phe Asp Leu Gln Ala Glu Glu Glu
 85           90           95
Gly Glu Gly Leu Val Pro Asn Lys Tyr Leu Thr Trp Arg Ser Gln Asp
100           105           110
Val Glu Asn Cys Ala Val Arg Xaa Lys Leu Thr Leu Asn Arg Thr Leu
115           120           125
Leu Val Ala Ala Arg Asp His Val Phe Ser Phe Asp Leu Gln Ala Glu
130           135           140
Glu Glu Gly Glu Gly Leu Val Pro Asn Lys Tyr Leu Thr Trp Arg Ser
145           150           155           160
Gln Asp Val Glu Asn Cys Ala Val Arg
165           169

```

<210> 1413

<211> 131

<212> Amino acid

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(131)

<223> X = any amino acid or stop code

```

<400> 1413
His Leu Val Pro Lys Thr Arg Gly Arg Gly Thr Pro Ser Gly Asp Gln
 1           5           10           15
Ser Pro Val Leu Thr Leu Thr Pro Xaa Gly Asp Pro Pro Thr Ile Leu
 20           25           30
Gly Pro Gln Thr Asn Gln Pro Lys Glu His Leu Thr Asn Phe Lys Ser
 35           40           45
Gly Lys Arg Ser Phe His Ser Leu Leu Gln Pro Leu Leu Leu Leu Leu
 50           55           60
His Pro Ser Ile Ser Pro Phe Leu Asn Phe Gly Ser Phe Pro Phe Leu
 65           70           75           80
Val Glu Thr Glu Glu Thr Cys Phe Ile His Lys Leu Lys Thr Pro Ala
 85           90           95
Leu Val Thr Pro Asp Ser Leu Pro Leu Val Phe Asn His Cys Gly Asp
100           105           110
Ala Cys Leu Ile Ile His Pro His Phe Arg Asp Val Glu Phe His His
115           120           125
Thr Gly Asn
130 131

```

<210> 1414

<211> 365
 <212>Amino acid
 <213> Homo sapiens

<400> 1414
 Cys Cys Ser Thr Lys Asn Ile Ser Gly Asp Lys Ala Cys Asn Leu Met
 1 5 10 15
 Ile Phe Asp Thr Arg Lys Thr Ala Arg Gln Pro Asn Cys Tyr Leu Phe
 20 25 30
 Phe Cys Pro Asn Glu Glu Ala Cys Pro Leu Lys Pro Ala Lys Gly Leu
 35 40 45
 Met Ser Tyr Arg Ile Ile Thr Asp Phe Pro Ser Leu Thr Arg Asn Leu
 50 55 60
 Pro Ser Gln Glu Leu Pro Gln Glu Asp Ser Leu Leu His Gly Gln Phe
 65 70 75 80
 Ser Gln Ala Val Thr Pro Leu Ala His His His Thr Asp Tyr Ser Lys
 85 90 95
 Pro Thr Asp Ile Ser Trp Arg Asp Thr Leu Ser Gln Lys Phe Gly Ser
 100 105 110
 Ser Asp His Leu Glu Lys Leu Phe Lys Met Asp Glu Ala Ser Ala Gln
 115 120 125
 Leu Leu Ala Tyr Lys Glu Lys Gly His Ser Gln Ser Ser Gln Phe Ser
 130 135 140
 Ser Asp Gln Glu Ile Ala His Leu Leu Pro Glu Asn Val Ser Ala Leu
 145 150 155 160
 Pro Ala Thr Val Ala Val Ala Ser Pro His Thr Thr Ser Ala Thr Pro
 165 170 175
 Lys Pro Ala Thr Leu Leu Pro Thr Asn Ala Ser Val Thr Pro Ser Gly
 180 185 190
 Thr Ser Gln Pro Gln Leu Ala Thr Thr Ala Pro Pro Val Thr Thr Val
 195 200 205
 Thr Ser Gln Pro Pro Thr Thr Leu Ile Ser Thr Val Phe Thr Arg Ala
 210 215 220
 Ala Ala Thr Leu Gln Ala Met Ala Thr Thr Ala Val Leu Thr Thr Thr
 225 230 235 240
 Phe Gln Ala Pro Thr Asp Ser Lys Gly Ser Leu Glu Thr Ile Pro Phe
 245 250 255
 Thr Glu Ile Ser Asn Leu Thr Leu Asn Thr Gly Asn Val Tyr Asn Pro
 260 265 270
 Thr Ala Leu Ser Met Ser Asn Val Glu Ser Ser Thr Met Asn Lys Thr
 275 280 285
 Ala Ser Trp Glu Gly Arg Glu Ala Ser Pro Gly Ser Ser Ser Gln Gly
 290 295 300
 Ser Val Pro Glu Asn Gln Tyr Gly Leu Pro Phe Glu Lys Trp Leu Leu
 305 310 315 320
 Ile Gly Ser Leu Leu Phe Gly Val Leu Phe Leu Val Ile Gly Leu Val
 325 330 335
 Leu Leu Gly Arg Ile Leu Ser Glu Ser Leu Arg Arg Lys Arg Tyr Ser
 340 345 350
 Arg Leu Asp Tyr Leu Ile Asn Gly Ile Tyr Val Asp Ile
 355 360 365

<210> 1415
 <211> 148
 <212>Amino acid
 <213> Homo sapiens

<220>
 <221> misc_feature

<222> (1)...(148)
 <223> X = any amino acid or stop code

<400> 1415
 Ile Phe Ala Gly Ser Gly Val Met Arg Leu Lys Ile Ser Leu Leu Lys
 1 5 10 15
 Glu Pro Lys His Gln Glu Leu Val Ser Cys Val Gly Trp Thr Thr Ala
 20 25 30
 Glu Glu Leu Tyr Ser Cys Ser Asp Asp His His Ile Val Lys Trp Asn
 35 40 45
 Leu Leu Thr Ser Glu Thr Thr Gln Ile Val Lys Leu Pro Asp Asp Ile
 50 55 60
 Tyr Pro Ile Asp Phe His Trp Phe Pro Lys Ser Leu Gly Val Lys Lys
 65 70 75 80
 Gln Thr His Ala Glu Ser Phe Val Leu Thr Ser Ser Asp Gly Lys Phe
 85 90 95
 His Leu Ile Ser Lys Leu Gly Arg Val Glu Lys Ser Val Glu Ala His
 100 105 110
 Cys Gly Ala Val Leu Ala Gly Arg Trp Asn Tyr Glu Gly Thr Ala Leu
 115 120 125
 Val Thr Val Gly Glu Asp Gly Gln Ile Xaa Ile Trp Ser Lys Thr Gly
 130 135 140
 Met Leu Ile Ser
 145 148

<210> 1416
 <211> 122
 <212> Amino acid
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(122)
 <223> X = any amino acid or stop code

<400> 1416
 Ala Arg Ala Thr Thr Lys Arg His Phe Ile Leu Leu Phe Leu Phe Phe
 1 5 10 15
 Leu Arg Arg Cys Leu Phe Leu Ser Pro Arg Met Glu Cys Asn Gly Ala
 20 25 30
 Ile Leu Ala His Cys Asn Leu His Leu Pro Gly Ser Ser Ser Ser Ser
 35 40 45
 Ala Ser Ala Ser Xaa Val Ala Gly Ile Thr Asp Val Arg His His Ala
 50 55 60
 Gln Leu Ile Leu Phe Val Phe Leu Val Glu Thr Gly Phe His Arg Val
 65 70 75 80
 Gly Gln Ala Gly Leu Lys Leu Leu Thr Ser Gly Asp Leu Leu Thr Ser
 85 90 95
 Ala Ser Gln Ser Ala Gly Ile Ile Met Gly Ile Ser His Cys Ala Gln
 100 105 110
 Pro Lys Lys Ala Phe Xaa Thr Lys Thr Phe
 115 120 122

<210> 1417

<211> 138
 <212>Amino acid
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(138)
 <223> X = any amino acid or stop code

<400> 1417
 Glu Ala Gly Ser Asn Asp Asp Leu Ala Thr Xaa Lys Thr Cys Gly Arg
 1 5 10 15
 Ala Arg Pro Ser Arg Ser Arg Gln Phe Gly Ser Arg Val Trp Asn
 20 25 30
 His Arg Gln Gly Val Arg Ser Ser Pro Gly Glu Gly Ala Gly Ser Arg
 35 40 45
 Ser Pro Cys Arg Arg Arg His Arg Arg Lys His Arg Arg Asn Val Gln
 50 55 60
 Ser Pro Xaa Arg Arg Arg Ser Arg Ser Cys Ser Arg Arg Ser Gly Arg
 65 70 75 80
 Cys Ser Val Ala Leu Leu Gly Ala Cys Pro Val Ala Gly His Ser Arg
 85 90 95
 Gly Lys Val Val Cys Arg Arg Ala His Ala Ile Thr Gln Arg Arg Arg
 100 105 110
 Cys Cys Gly Phe Asp Pro Met Val His Pro Lys Glu His Arg Gly Xaa
 115 120 125
 Arg Glu Arg Ser Arg Lys Trp Ser Arg Ser
 130 135 138

<210> 1418
 <211> 92
 <212>Amino acid
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(92)
 <223> X = any amino acid or stop code

<400> 1418
 Ala Thr Ala Pro Gly Leu Phe Asn Phe Phe Xaa Phe Leu Phe Gln Cys
 1 5 10 15
 Arg Glu Glu His Lys Lys Lys Asn Pro Glu Val Pro Val Asn Phe Ala
 20 25 30
 Glu Phe Ser Lys Lys Cys Ser Gly Arg Trp Lys Thr Met Ser Ser Lys
 35 40 45
 Glu Lys Phe Lys Phe Gly Glu Met Ala Lys Ala Asp Glu Val Cys Tyr
 50 55 60
 Asp Arg Glu Met Lys Asp Tyr Gly Pro Ala Lys Gly Gly Lys Lys Lys
 65 70 75 80
 Asp Pro Asn Ala Pro Lys Arg Pro Pro Ser Gly Phe
 85 90 92

<210> 1419

<211> 44
 <212>Amino acid
 <213> Homo sapiens

<400> 1419
 Leu Thr Val Asn Tyr Val Leu Val Phe Ser Arg Asp Ser Gly Leu Arg
 1 5 10 15
 Ala Ile Glu Asn Leu Met Gln Lys Lys Gly Lys Phe Asp Tyr Ile Leu
 20 25 30
 Leu Glu Thr Thr Gly Leu Ala Asp Pro Gly Lys Lys
 35 40 44

<210> 1420
 <211> 91
 <212>Amino acid
 <213> Homo sapiens

<400> 1420
 His Glu Ala Ala Leu Cys Arg Thr Arg Ala Val Ala Ala Glu Arg His
 1 5 10 15
 Phe Leu Arg Val Phe Leu Phe Phe Arg Pro Phe Arg Gly Val Gly Thr
 20 25 30
 Glu Ser Gly Ser Glu Ser Gly Ser Lys Ala Lys Glu Pro Arg Thr
 35 40 45
 Pro Ser Ser Ser Tyr Gly Thr Ala Gln Tyr Arg Arg Trp Pro Ile Ala
 50 55 60
 Gln Glu Tyr Lys His Cys Thr Ala His Asn Asp Thr Gly Thr Leu Cys
 65 70 75 80
 Ser Glu Leu Arg Glu Pro Trp Arg Arg Pro Gln
 85 90 91

<210> 1421
 <211> 190
 <212>Amino acid
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(190)
 <223> X = any amino acid or stop code

<400> 1421
 Glu Gly Ser Ser Gln Ala Asn Thr Leu Arg Ser Arg Lys Glu Asn Arg
 1 5 10 15
 Asn Asn Leu Leu Ala Cys Leu Glu Ser His Val Leu Arg Xaa Gln Phe
 20 25 30
 Thr Glu Ser His Leu Cys Ser Leu Met Gly Asp Asn Pro Phe Gln Pro
 35 40 45
 Lys Ser Asn Ser Lys Met Ala Glu Leu Phe Met Glu Cys Glu Glu Glu
 50 55 60

Glu Leu Glu Pro Trp Gln Lys Lys Val Lys Glu Val Glu Asp Asp Asp
 65 70 75 80
 Asp Asp Glu Pro Ile Phe Val Gly Glu Ile Ser Ser Ser Lys Pro Ala
 85 90 95
 Ile Ser Asn Ile Leu Asn Arg Val Asn Pro Ser Ser Tyr Ser Arg Gly
 100 105 110
 Leu Lys Asn Gly Ala Leu Ser Arg Gly Ile Thr Ala Ala Phe Lys Pro
 115 120 125
 Thr Ser Gln His Tyr Thr Asn Pro Thr Ser Asn Pro Val Pro Ala Ser
 130 135 140
 Pro Ile Asn Phe His Pro Glu Ser Arg Ser Ser Asp Ser Ser Val Ile
 145 150 155 160
 Gly Gln Pro Phe Ser Lys Pro Val Ser Val Ser Lys Thr Ile Arg Pro
 165 170 175
 Ala Gln Gly Ser Ile Gly Cys Cys Leu Ser Ile Ser Thr Val
 180 185 190

<210> 1422

<211> 207

<212>Amino acid

<213> Homo sapiens

<400> 1422

Cys Phe Ser Leu Glu Asp Ile Leu Asn Phe Phe Leu Gln Gly Phe Ser
 1 5 10 15
 Ala Gly Leu Phe Ala Phe Tyr His Asp Lys Asp Gly Asn Pro Leu Thr
 20 25 30
 Ser Arg Phe Ala Asp Gly Leu Pro Phe Asn Tyr Ser Leu Gly Leu
 35 40 45
 Tyr Gln Trp Ser Asp Lys Val Val Arg Lys Val Glu Arg Leu Trp Asp
 50 55 60
 Val Arg Asp Asn Lys Ile Val Arg His Thr Val Tyr Leu Leu Val Thr
 65 70 75 80
 Pro Arg Val Val Glu Ala Arg Lys His Phe Asp Cys Pro Val Leu
 85 90 95
 Glu Gly Met Glu Leu Glu Asn Gln Gly Gly Val Gly Thr Glu Leu Asn
 100 105 110
 His Trp Glu Lys Arg Leu Leu Glu Asn Glu Ala Met Thr Gly Ser His
 115 120 125
 Thr Gln Asn Arg Val Leu Ser Arg Ile Thr Leu Ala Leu Met Glu Asp
 130 135 140
 Thr Gly Arg Gln Met Leu Ser Pro Tyr Cys Asp Thr Leu Arg Ser Asn
 145 150 155 160
 Pro Leu Gln Leu Thr Cys Arg Gln Asp Gln Arg Ala Val Ala Val Cys
 165 170 175
 Asn Leu Gln Lys Phe Pro Lys Pro Leu Pro Gln Glu Tyr Gln Tyr Phe
 180 185 190
 Asp Glu Leu Ser Gly Ile Pro Ala Glu Asp Leu Pro Tyr Tyr Gly
 195 200 205 207

<210> 1423

<211> 423

<212>Amino acid

<213> Homo sapiens

<400> 1423
 Ala Ala Arg Arg Arg Arg Gln Leu Val Ser Arg Arg Arg Thr Ala Glu
 1 5 10 15
 Tyr Pro Arg Arg Arg Arg Ser Ser Pro Ser Ala Arg Pro Pro Asp Val
 20 25 30
 Pro Gly Gln Gln Pro Lys Ala Ala Lys Ser Pro Ser Pro Val Gln Gly
 35 40 45
 Lys Lys Ser Pro Arg Leu Leu Cys Ile Glu Lys Val Thr Thr Asp Lys
 50 55 60
 Asp Pro Lys Glu Glu Lys Glu Glu Asp Asp Ser Ala Leu Pro Gln
 65 70 75 80
 Glu Val Ser Ile Ala Ala Ser Arg Pro Ser Arg Gly Trp Arg Ser Ser
 85 90 95
 Arg Thr Ser Val Ser Arg His Arg Asp Thr Glu Asn Thr Arg Ser Ser
 100 105 110
 Arg Ser Lys Thr Gly Ser Leu Gln Leu Ile Cys Lys Ser Glu Pro Asn
 115 120 125
 Thr Asp Gln Leu Asp Tyr Asp Val Gly Glu Glu His Gln Ser Pro Gly
 130 135 140
 Gly Ile Ser Ser Glu Glu Glu Glu Glu Glu Glu Glu Met Leu Ile
 145 150 155 160
 Ser Glu Glu Glu Ile Pro Phe Lys Asp Asp Pro Arg Asp Glu Thr Tyr
 165 170 175
 Lys Pro His Leu Glu Arg Glu Thr Pro Lys Pro Arg Arg Lys Ser Gly
 180 185 190
 Lys Val Lys Glu Glu Lys Glu Lys Lys Glu Ile Lys Val Glu Val Glu
 195 200 205
 Val Glu Val Lys Glu Glu Glu Asn Glu Ile Arg Glu Asp Glu Glu Pro
 210 215 220
 Pro Arg Lys Arg Gly Arg Arg Arg Lys Asp Asp Lys Ser Pro Arg Leu
 225 230 235 240
 Pro Lys Arg Arg Lys Lys Pro Pro Ile Gln Tyr Val Arg Cys Glu Met
 245 250 255
 Glu Gly Cys Gly Thr Val Leu Ala His Pro Arg Tyr Leu Gln His His
 260 265 270
 Ile Lys Tyr Gln His Leu Leu Lys Lys Lys Tyr Val Cys Pro His Pro
 275 280 285
 Ser Cys Gly Arg Leu Phe Arg Leu Gln Lys Gln Leu Leu Arg His Ala
 290 295 300
 Lys His His Thr Asp Gln Arg Asp Tyr Ile Cys Glu Tyr Cys Ala Arg
 305 310 315 320
 Ala Phe Lys Ser Ser His Asn Leu Ala Val His Arg Met Ile His Thr
 325 330 335
 Gly Glu Lys Pro Leu Gln Cys Glu Ile Cys Gly Phe Thr Cys Arg Gln
 340 345 350
 Lys Ala Ser Leu Asn Trp His Met Lys Lys His Asp Ala Asp Ser Phe
 355 360 365
 Tyr Gln Phe Ser Cys Asn Ile Cys Gly Lys Lys Phe Glu Lys Lys Asp
 370 375 380
 Ser Val Val Ala His Lys Ala Lys Ser His Pro Glu Val Leu Ile Ala
 385 390 395 400
 Glu Ala Leu Ala Ala Asn Ala Gly Ala Leu Ile Thr Ser Thr Asp Ile
 405 410 415
 Leu Gly Thr Asn Pro Glu Ser
 420 423

<210> 1424

<211> 158

<212> Amino acid

<213> Homo sapiens

<400> 1424

```

Met Thr Ala Asn Arg Leu Ala Glu Ser Leu Leu Ala Leu Ser Gln Gln
 1           5           10           15
Glu Glu Leu Ala Asp Leu Pro Lys Asp Tyr Leu Leu Ser Glu Ser Glu
      20           25           30
Asp Glu Gly Asp Asn Asp Gly Glu Arg Lys His Gln Lys Leu Leu Glu
      35           40           45
Ala Ile Ser Ser Leu Asp Gly Lys Asn Arg Arg Lys Leu Ala Glu Arg
      50           55           60
Ser Glu Ala Ser Leu Lys Val Ser Glu Phe Asn Val Ser Ser Glu Gly
      65           70           75           80
Ser Gly Glu Lys Leu Val Leu Ala Asp Leu Leu Glu Pro Val Lys Thr
      85           90           95
Ser Ser Ser Leu Ala Thr Val Lys Lys Gln Leu Ser Arg Val Lys Ser
      100          105          110
Lys Lys Thr Val Glu Leu Pro Leu Asn Lys Glu Glu Ile Glu Arg Ile
      115          120          125
His Arg Glu Val Ala Phe Asn Lys Thr Ala Gln Val Leu Ser Lys Trp
      130          135          140
Asp Pro Val Val Leu Lys Asn Arg Gln Ala Glu Gln Leu *
145          150          155          157

```

<210> 1425

<211> 286

<212>Amino acid

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(286)

<223> X = any amino acid or stop code

<400> 1425

```

Arg Ile Asp Phe Met Phe His Ser Ser Ala Met Val Asn Ser His Arg
 1           5           10           15
Lys Pro Met Phe Asn Ile His Arg Gly Phe Tyr Cys Leu Thr Ala Ile
      20           25           30
Leu Pro Gln Ile Cys Ile Cys Ser Gln Phe Ser Val Pro Ser Ser Tyr
      35           40           45
His Phe Thr Glu Asp Pro Gly Ala Phe Pro Val Ala Thr Asn Gly Glu
      50           55           60
Arg Phe Pro Trp Gln Glu Leu Arg Leu Pro Ser Val Val Ile Pro Leu
      65           70           75           80
His Tyr Asp Leu Phe Val His Pro Asn Leu Thr Ser Leu Asp Phe Val
      85           90           95
Ala Ser Glu Lys Ile Glu Val Leu Val Ser Asn Ala Thr Gln Leu Ile
      100          105          110
Ile Leu His Ser Lys Asp Leu Glu Ile Thr Asn Ala Thr Leu Gln Ser
      115          120          125
Glu Glu Asp Ser Arg Tyr Met Lys Pro Gly Lys Glu Leu Lys Val Leu
      130          135          140
Ser Tyr Pro Ala His Glu Gln Ile Ala Leu Leu Val Pro Glu Lys Leu
145          150          155          160
Thr Pro His Leu Lys Tyr Tyr Val Ala Met Asp Phe Gln Ala Lys Leu
      165          170          175
Gly Asp Gly Phe Glu Gly Phe Tyr Lys Ser Thr Tyr Arg Thr Leu Gly

```

```

      180      185      190
Gly Glu Thr Arg Ile Leu Ala Val Thr Asp Phe Glu Pro Thr Gln Ala
      195      200      205
Arg Met Ala Phe Pro Cys Phe Asp Glu Pro Leu Phe Lys Ala Asn Phe
      210      215      220
Ser Ile Lys Ile Arg Arg Glu Ser Arg His Ile Ala Leu Ser Asn Met
      225      230      235      240
Pro Lys Val Lys Thr Ile Glu Leu Glu Gly Gly Leu Leu Glu Asp His
      245      250      255
Phe Glu Thr Thr Val Lys Met Ser Thr Tyr Leu Val Ala Tyr Ile Asp
      260      265      270
Leu Xaa Phe Pro Leu Met Gly Asn Asp Phe Leu Gly Arg Ser
      275      280      285 286

```

<210> 1426

<211> 224

<212>Amino acid

<213> Homo sapiens

```

      <400> 1426
Arg Ser Lys Ile Pro Arg Ser Asp Pro Arg Val Arg Thr Pro Ala Pro
  1      5      10      15
Ala Glu Ala Glu Gln Gly Lys Ser Gln Cys Pro Ser Gly Ser Thr Ala
      20      25      30
Gln Ser Trp Ser Ala Met Asp Ile Leu Val Pro Leu Leu Gln Leu Leu
      35      40      45
Val Leu Leu Leu Thr Leu Pro Leu His Leu Met Ala Leu Leu Gly Cys
      50      55      60
Trp Gln Pro Leu Cys Lys Ser Tyr Phe Pro Tyr Leu Met Ala Val Leu
      65      70      75      80
Thr Pro Lys Ser Asn Arg Lys Met Glu Ser Lys Lys Arg Glu Leu Phe
      85      90      95
Ser Gln Ile Lys Gly Leu Thr Gly Ala Ser Gly Lys Val Ala Leu Leu
      100      105      110
Glu Leu Gly Cys Gly Thr Gly Ala Asn Phe Gln Phe Tyr Pro Pro Gly
      115      120      125
Cys Arg Val Thr Cys Leu Asp Pro Asn Pro His Phe Glu Lys Phe Leu
      130      135      140
Thr Lys Ser Met Ala Glu Asn Arg His Leu Gln Tyr Glu Arg Phe Val
      145      150      155      160
Val Ala Pro Gly Glu Asp Met Arg Gln Leu Ala Asp Gly Ser Met Asp
      165      170      175
Val Val Val Cys Thr Leu Val Leu Cys Ser Val Gln Ser Pro Arg Lys
      180      185      190
Val Leu Gln Glu Val Arg Arg Val Leu Arg Pro Gly Gly Val Leu Phe
      195      200      205
Phe Trp Glu His Val Ala Glu Pro Tyr Gly Ser Trp Ala Phe Met Trp
      210      215      220      224

```

<210> 1427

<211> 133

<212>Amino acid

<213> Homo sapiens

<400> 1427

```

Arg Leu Gln Asn Ser Ser Leu Met Asp Pro Lys Leu Gly Arg Met Ala
 1              5              10              15
Ala Ser Leu Leu Ala Val Leu Leu Leu Leu Leu Leu Glu Arg Gly Met
              20              25              30
Phe Ser Ser Pro Ser Pro Pro Pro Ala Leu Leu Glu Lys Val Phe Gln
              35              40              45
Tyr Ile Asp Leu His Gln Asp Glu Phe Val Gln Thr Leu Lys Glu Trp
              50              55              60
Val Ala Ile Glu Ser Asp Ser Val Gln Pro Val Pro Arg Phe Arg Gln
              65              70              75              80
Glu Leu Phe Arg Met Met Ala Val Ala Ala Asp Thr Leu Gln Arg Leu
              85              90              95
Gly Ala Arg Val Ala Ser Val Asp Met Gly Pro Gln Gln Leu Pro Asp
              100              105              110
Gly Gln Ser Leu Pro Ile Pro Pro Val Ile Leu Ala Glu Leu Gly Ser
              115              120              125
Asp Pro Thr Lys Gly
              130              133

```

<210> 1428

<211> 38

<212>Amino acid

<213> Homo sapiens

<400> 1428

```

Phe Phe Phe Phe Glu Met Glu Ser Cys Ser Val Thr Gln Ala Gly Val
 1              5              10              15
Pro Trp His Asp Leu Ser Ser Leu Gln Pro Pro Pro Pro Arg Phe Lys
              20              25              30
Arg Phe Ser Cys Leu Ser
              35              38

```

<210> 1429

<211> 145

<212>Amino acid

<213> Homo sapiens

<400> 1429

```

Asp Pro Lys Ala Gln Leu Pro Glu Pro Leu Arg Val Leu Trp Thr Ala
 1              5              10              15
His Leu Val Ala Met Ala Pro Gly Ser Arg Thr Ser Leu Leu Ala
              20              25              30
Phe Ala Leu Leu Cys Leu Pro Trp Leu Gln Glu Ala Gly Ala Val Gln
              35              40              45
Thr Val Pro Leu Ser Arg Leu Phe Asp His Ala Met Leu Gln Ala His
              50              55              60
Arg Ala His Gln Leu Ala Ile Asp Thr Tyr Gln Glu Phe Glu Glu Thr
              65              70              75              80
Tyr Ile Pro Lys Asp Gln Lys Tyr Ser Phe Leu His Asp Ser Gln Thr
              85              90              95
Ser Phe Cys Phe Ser Asp Ser Ile Pro Thr Pro Ser Asn Met Glu Glu

```

```

      100      105      110
Thr Gln Gln Lys Ser Asn Leu Glu Leu Leu Arg Ile Ser Leu Leu Leu
      115      120      125
Ile Glu Ser Trp Leu Glu Pro Val Arg Ile Leu Met Ser Ile Val Pro
      130      135      140
Asn
145

```

```

<210> 1430
<211> 453
<212> Amino acid
<213> Homo sapiens

```

```

<400> 1430
Phe Val Lys Leu Ile Lys Lys His Gln Ala Ala Met Glu Lys Glu Ala
 1      5      10      15
Lys Val Met Ser Asn Glu Glu Lys Lys Phe Gln Gln His Ile Gln Ala
      20      25      30
Gln Gln Lys Lys Glu Leu Asn Ser Phe Leu Glu Ser Gln Lys Arg Glu
      35      40      45
Tyr Lys Leu Arg Lys Glu Gln Leu Lys Glu Glu Leu Asn Glu Asn Gln
      50      55      60
Ser Thr Pro Lys Lys Glu Lys Gln Glu Trp Leu Ser Lys Gln Lys Glu
      65      70      75      80
Asn Ile Gln His Phe Gln Ala Glu Glu Glu Ala Asn Leu Leu Arg Arg
      85      90      95
Gln Arg Gln Tyr Leu Glu Leu Glu Cys Arg Arg Phe Lys Arg Arg Met
      100      105      110
Leu Leu Gly Arg His Asn Leu Glu Gln Asp Leu Val Arg Glu Glu Leu
      115      120      125
Asn Lys Arg Gln Thr Gln Lys Asp Leu Glu His Ala Met Leu Leu Arg
      130      135      140
Gln His Glu Ser Met Gln Glu Leu Glu Phe Arg His Leu Asn Thr Ile
      145      150      155      160
Gln Lys Met Arg Cys Glu Leu Ile Arg Leu Gln His Gln Thr Glu Leu
      165      170      175
Thr Asn Gln Leu Glu Tyr Asn Lys Arg Arg Glu Arg Glu Leu Arg Arg
      180      185      190
Lys His Val Met Glu Val Arg Gln Gln Pro Lys Ser Leu Lys Ser Lys
      195      200      205
Glu Leu Gln Ile Lys Lys Gln Phe Gln Asp Thr Cys Lys Ile Gln Thr
      210      215      220
Arg Gln Tyr Lys Ala Leu Arg Asn His Leu Leu Glu Thr Thr Pro Lys
      225      230      235      240
Ser Glu His Lys Ala Val Leu Lys Arg Leu Lys Glu Glu Gln Thr Arg
      245      250      255
Lys Leu Ala Ile Leu Ala Glu Gln Tyr Asp His Ser Ile Asn Glu Met
      260      265      270
Leu Ser Thr Gln Ala Leu Arg Leu Asp Glu Ala Gln Glu Ala Glu Cys
      275      280      285
Gln Val Leu Lys Met Gln Leu Gln Gln Glu Leu Glu Leu Asn Ala
      290      295      300
Tyr Gln Ser Lys Ile Lys Met Gln Ala Glu Ala Gln His Asp Arg Glu
      305      310      315      320
Leu Arg Glu Leu Glu Gln Arg Val Ser Leu Arg Arg Ala Leu Leu Glu
      325      330      335
Gln Lys Ile Glu Glu Glu Met Leu Ala Leu Gln Asn Glu Arg Thr Glu
      340      345      350
Arg Ile Arg Ser Leu Leu Glu Arg Gln Ala Arg Glu Ile Glu Ala Phe

```

```

      355              360              365
Asp Ser Glu Ser Met Arg Leu Gly Phe Ser Asn Met Val Leu Ser Asn
  370              375              380
Leu Ser Pro Glu Ala Phe Ser His Ser Tyr Pro Gly Ala Ser Gly Trp
 385              390              395              400
Ser His Asn Pro Thr Gly Gly Pro Gly Pro His Trp Gly His Pro Met
      405              410              415
Gly Gly Pro Pro Gln Ala Trp Gly His Pro Met Gln Gly Gly Pro Gln
      420              425              430
Pro Trp Gly His Pro Ser Gly Pro Met Gln Gly Val Pro Arg Gly Ser
      435              440              445
Ser Met Gly Val Arg
      450              453

```

<210> 1431
 <211> 151
 <212>Amino acid
 <213> Homo sapiens

```

      <400> 1431
Leu Ala His Gly Ser Phe Gly Val Ser Asp Phe Pro Ala Pro Ala Ala
  1              5              10              15
Ala Pro Ala His Thr Leu Thr Ser Phe Ser Gly Ser Leu Ser Pro Gln
      20              25              30
Phe Arg Lys Pro Leu Gly Arg Ala Pro Ala Met Pro Leu Val Arg Tyr
      35              40              45
Arg Lys Val Val Ile Leu Gly Tyr Arg Cys Val Gly Lys Thr Ser Leu
      50              55              60
Ala His Gln Phe Val Glu Gly Glu Phe Ser Glu Gly Tyr Asp Pro Thr
      65              70              75              80
Val Glu Asn Thr Tyr Ser Lys Ile Val Thr Leu Gly Lys Asp Glu Phe
      85              90              95
His Leu His Leu Val Asp Thr Ala Gly Gln Asp Glu Tyr Ser Ile Leu
      100              105              110
Pro Tyr Ser Phe Ile Ile Gly Val His Gly Tyr Val Leu Val Tyr Ser
      115              120              125
Val Thr Ser Leu His Ser Phe Gln Val Ile Glu Ser Leu Tyr Gln Lys
      130              135              140
Leu His Glu Gly His Gly Lys
      145              150 151

```

<210> 1432
 <211> 514
 <212>Amino acid
 <213> Homo sapiens

```

      <400> 1432
Ser Ser Pro Ser Arg Glu Leu Cys Phe Tyr Gly Phe Trp Ile Ala Ser
  1              5              10              15
Ser Trp Trp Ser Arg Trp Val Gly Ser Leu Gly Pro Gly Ile Leu Pro
      20              25              30
Ser Pro Pro Ala Arg Gly Arg Thr Phe Ala Ser Val Ser Arg Leu Pro
      35              40              45
Pro Pro Trp Ser Ala Gly Ile Thr Leu Thr Pro Phe Leu Ile Cys Gln

```

50	55	60
Ser Gly Ser Val Cys Pro Gly Leu Gly Ala Gly Phe Gly Val Arg Ser		
65	70	75
Phe His His Pro Val Ala Arg Ser Ala Val Leu Leu Leu Pro Leu Ala		80
	85	90
Pro Ala Ala Ala Gln Asp Ser Thr Gln Ala Ser Thr Pro Gly Ser Pro		95
	100	105
Leu Ser Pro Thr Glu Tyr Glu Arg Phe Phe Ala Leu Leu Thr Pro Thr		110
	115	120
Trp Lys Ala Glu Thr Thr Cys Arg Leu Arg Ala Thr His Gly Cys Arg		125
	130	135
Asn Pro Thr Leu Val Gln Leu Asp Gln Tyr Glu Asn His Gly Leu Val		140
145	150	155
Pro Asp Gly Ala Val Cys Ser Asn Leu Pro Tyr Ala Ser Trp Phe Glu		160
	165	170
Ser Phe Cys Gln Phe Thr His Tyr Arg Cys Ser Asn His Val Tyr Tyr		175
	180	185
Ala Lys Arg Val Leu Cys Ser Gln Pro Val Ser Ile Leu Ser Pro Asn		190
	195	200
Thr Leu Lys Glu Ile Glu Ala Ser Ala Glu Val Ser Pro Thr Thr Met		205
	210	215
Thr Ser Pro Ile Ser Pro His Phe Thr Val Thr Glu Arg Gln Thr Phe		220
225	230	235
Gln Pro Trp Pro Glu Arg Leu Ser Asn Asn Val Glu Glu Leu Leu Gln		240
	245	250
Ser Ser Leu Ser Leu Gly Gly Gln Glu Gln Ala Pro Glu His Lys Gln		255
	260	265
Glu Gln Gly Val Glu His Arg Gln Glu Pro Thr Gln Glu His Lys Gln		270
	275	280
Glu Glu Gly Gln Lys Gln Glu Glu Gln Glu Glu Glu Gln Glu Glu Glu		285
	290	295
Gly Lys Gln Glu Glu Gly Gln Gly Thr Lys Glu Gly Arg Glu Ala Val		300
305	310	315
Ser Gln Leu Gln Thr Asp Ser Glu Pro Lys Phe His Ser Glu Ser Leu		320
	325	330
Ser Ser Asn Pro Ser Ser Phe Ala Pro Arg Val Arg Glu Val Glu Ser		335
	340	345
Thr Pro Met Ile Met Glu Asn Ile Gln Glu Leu Ile Arg Ser Ala Gln		350
	355	360
Glu Ile Asp Glu Met Asn Glu Ile Tyr Asp Glu Asn Ser Tyr Trp Arg		365
	370	375
Asn Gln Asn Pro Gly Ser Leu Leu Gln Leu Pro His Thr Glu Ala Leu		380
385	390	395
Leu Val Leu Cys Tyr Ser Ile Val Glu Asn Thr Cys Ile Ile Thr Pro		400
	405	410
Thr Ala Lys Ala Trp Lys Tyr Met Glu Glu Glu Ile Leu Gly Phe Gly		415
	420	425
Lys Ser Val Cys Asp Ser Leu Gly Arg Arg His Met Ser Thr Cys Ala		430
	435	440
Leu Cys Asp Phe Cys Ser Leu Lys Leu Glu Gln Cys His Ser Glu Ala		445
	450	455
Ser Leu Gln Arg Gln Gln Cys Asp Thr Ser His Lys Thr Pro Phe Val		460
465	470	475
Ser Pro Leu Leu Ala Ser Gln Ser Leu Ser Ile Gly Asn Gln Val Gly		480
	485	490
Ser Pro Glu Ser Gly Arg Phe Tyr Gly Leu Asp Leu Tyr Gly Gly Leu		495
	500	505
His Met		510
514		

<210> 1433

<211> 241

<212>Amino acid

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(241)

<223> X = any amino acid or stop code

<400> 1433

```

Val Ser Trp Val Pro Ser Lys Asp Gly Asp Val Glu Gly Ala Arg Arg
 1           5           10           15
Pro Phe Thr Arg Leu Asn Thr Ser Leu Gly Pro Gly Leu Gln Glu Gly
 20           25           30
Arg Arg Arg Thr Trp Leu Val Pro Ile Pro Gly Ala Val Leu Pro Gly
 35           40           45
Arg Thr Gln Glu Gln Pro Arg Ala Ser Pro Leu Tyr Xaa Pro Gly Ala
 50           55           60
Pro Pro Cys Gln Pro Gln Gly Leu Val Ala Gly Pro Trp Ala Gln Xaa
 65           70           75           80
Ala Gly Leu Arg Ser Asp Gly Phe Gly Pro Trp Pro Trp Arg Leu Val
 85           90           95
Gly Thr Ala Gly Pro Arg Glu Lys Lys Val Gln Lys Ser Lys Cys Trp
100           105           110
His Phe Arg Cys Gly Arg His Pro Ala Arg Arg Ser Gly Trp Ala Gly
115           120           125
Arg His Ala Ser Leu Leu Ala Thr Gly Arg Pro Cys Ser Ser Ala Pro
130           135           140
Ser Gln Gln Pro Leu Gly Thr Ala Gly Asp Ser Arg Gln Glu Leu Leu
145           150           155           160
Arg Pro Pro Leu Val Xaa Val Asn Gly Ala Gln Ser Ser Ala Ala Gly
165           170           175
Asp Trp Gly Ser Ser Pro Arg Thr Ala Gln Ala Leu Ala Arg Pro His
180           185           190
Arg Leu Gly His His Pro Ala Ala Val Ala Pro Ala Ala Arg Leu Arg
195           200           205
Thr Gln Ser Gly His Ser Pro Arg Gly Pro Leu Cys Arg Ser Pro Gly
210           215           220
Ser Pro Arg Arg Met Gly Thr Trp Arg Gly Pro Ala Gly His Ser His
225           230           235           240
Asp
241

```

<210> 1434

<211> 127

<212> Amino acid

<213> Homo sapiens

<400> 1434

```

Lys Thr Val Ala Glu Glu Ala Ser Val Gly Asn Pro Glu Gly Ala Phe
 1           5           10           15
Met Lys Met Leu Gln Ala Arg Lys Gln His Met Ser Thr Glu Leu Thr
 20           25           30
Ile Glu Ser Glu Ala Pro Ser Asp Ser Ser Gly Ile Asn Leu Ser Gly
 35           40           45
Phe Gly Ser Glu Gln Leu Asp Thr Asn Asp Glu Ser Asp Val Ser Ser
 50           55           60

```

Ala Leu Ser Tyr Ile Leu Pro Tyr Leu Ser Leu Arg Asn Leu Gly Ala
 65 70 75 80
 Glu Ser Ile Leu Leu Pro Phe Thr Glu Gln Leu Phe Ser Asn Val Gln
 85 90 95
 Asp Gly Asp Arg Leu Leu Ser Ile Leu Lys Asn Asn Arg Lys Ser Pro
 100 105 110
 Ser Gln Ser Ser Leu Leu Gly Asn Lys Phe Lys Asn Lys Ile Phe
 115 120 125 127

<210> 1435
 <211> 182
 <212> Amino acid
 <213> Homo sapiens

<400> 1435
 Gly Glu Cys Phe Ile Met Ala Ala Val Val Gln Gln Asn Asp Leu Val
 1 5 10 15
 Phe Glu Phe Ala Ser Asn Val Met Glu Asp Glu Arg Gln Leu Gly Asp
 20 25 30
 Pro Ala Ile Phe Pro Ala Val Ile Val Glu His Val Pro Gly Ala Asp
 35 40 45
 Ile Leu Asn Ser Tyr Ala Gly Leu Ala Cys Val Glu Glu Pro Asn Asp
 50 55 60
 Met Ile Thr Glu Ser Ser Leu Asp Val Ala Glu Glu Glu Ile Ile Asp
 65 70 75 80
 Asp Asp Asp Asp Ile Thr Leu Thr Val Glu Ala Ser Cys His Asp
 85 90 95
 Gly Asp Glu Thr Ile Glu Thr Ile Glu Ala Ala Glu Ala Leu Leu Asn
 100 105 110
 Met Asp Ser Pro Gly Pro Met Leu Asp Glu Lys Arg Ile Asn Asn Asn
 115 120 125
 Ile Phe Ser Ser Pro Glu Asp Asp Met Val Val Ala Pro Val Thr His
 130 135 140
 Val Ser Val Thr Leu Asp Gly Ile Pro Glu Val Met Glu Thr Gln Gln
 145 150 155 160
 Val Gln Glu Lys Tyr Ala Asp Ser Pro Gly Ala Ser Ser Pro Glu Gln
 165 170 175
 Pro Lys Arg Lys Lys Lys
 180 182

<210> 1436
 <211> 154
 <212> Amino acid
 <213> Homo sapiens

<400> 1436
 His Glu Ala Ser Gly Val Ser Arg Ala Leu Leu Gln Ser Ala Pro Gly
 1 5 10 15
 Thr Pro Ala Thr Val Gly Ile Ser Val Gly Glu Leu Trp Pro Phe Ala
 20 25 30
 Arg Cys Cys Ser His Ser Tyr Val Arg Ser Leu Arg Gly Leu Ser Val
 35 40 45
 Ser Thr His Leu Leu Cys Phe Thr Ile Tyr Ile Met Asn Pro Ser Met
 50 55 60

```

Lys Gln Lys Gln Glu Glu Ile Lys Glu Asn Ile Lys Thr Ser Ser Val
65              70              75              80
Pro Arg Arg Thr Leu Lys Met Ile Gln Pro Ser Ala Ser Gly Ser Leu
85              90              95
Val Gly Arg Glu Asn Glu Leu Ser Ala Gly Leu Ser Lys Arg Lys His
100            105            110
Arg Asn Asp His Leu Thr Ser Thr Thr Ser Ser Pro Gly Val Ile Val
115            120            125
Pro Glu Ser Ser Glu Asn Lys Asn Leu Gly Gly Val Thr Gln Glu Ser
130            135            140
Phe Asp Leu Met Ile Lys Gly Met Lys Lys
145            150            154

```

<210> 1437

<211> 63

<212>Amino acid

<213> Homo sapiens

<400> 1437

```

Pro Leu Pro Ala Arg Gly Lys Ser Thr Leu Pro Ala Thr Phe Cys Ser
1              5              10              15
Pro Ser Ala Pro Glu Leu Ala Ser Met Ser Val Val Pro Pro Asn Arg
20            25            30
Ser Gln Thr Gly Trp Pro Arg Gly Val Thr Gln Phe Gly Asn Lys Tyr
35            40            45
Ile Gln Gln Thr Lys Pro Leu Thr Leu Glu Arg Thr Ile Asn Leu
50            55            60            63

```

<210> 1438

<211> 140

<212>Amino acid

<213> Homo sapiens

<400> 1438

```

Ala Glu Gly Glu Asp Val Pro Pro Leu Pro Thr Ser Ser Gly Asp Gly
1              5              10              15
Trp Glu Lys Asp Leu Glu Glu Ala Leu Glu Ala Gly Gly Cys Asp Leu
20            25            30
Glu Thr Leu Arg Asn Ile Ile Gln Gly Arg Pro Leu Pro Ala Asp Leu
35            40            45
Arg Ala Lys Val Trp Lys Ile Ala Leu Asn Val Ala Gly Lys Gly Asp
50            55            60
Ser Leu Ala Ser Trp Asp Gly Ile Leu Asp Leu Pro Glu Gln Asn Thr
65            70            75            80
Ile His Lys Asp Cys Leu Gln Phe Ile Asp Gln Leu Ser Val Pro Glu
85            90            95
Glu Lys Ala Ala Glu Leu Leu Leu Asp Ile Glu Ser Val Ile Thr Phe
100          105          110
Tyr Cys Lys Ser Arg Asn Ile Lys Tyr Ser Thr Ser Leu Ser Trp Ile
115          120          125
His Leu Leu Lys Pro Leu Val His Leu Gln Leu Pro
130          135          140

```

<210> 1439
 <211> 84
 <212>Amino acid
 <213> Homo sapiens

<400> 1439
 Ala Leu Pro Lys Phe Leu Thr His Gly Val Lys Ser Asn Glu Arg Val
 1 5 10 15
 Val Val Trp Leu Phe Pro Pro Ser Phe Arg Ala Ala Thr Met Val His
 20 25 30
 Met Asn Val Leu Pro Asp Ala Leu Lys Ser Ile Asn Asn Ala Glu Arg
 35 40 45
 Arg Gly Lys Pro Gln Val Leu Ile Arg Leu Cys Ser Lys Ile Ile Ile
 50 55 60
 Trp Phe Leu Thr Val Met Val Lys Tyr Gly Tyr Ile Gly Lys Phe Glu
 65 70 75 80
 Pro Thr Arg Pro
 84

<210> 1440
 <211> 255
 <212>Amino acid
 <213> Homo sapiens

<400> 1440
 Ala Met Ala Gln Tyr Gly His Pro Ser Pro Leu Gly Met Ala Ala Arg
 1 5 10 15
 Glu Glu Leu Tyr Ser Lys Val Thr Pro Arg Arg Asn Arg Gln Gln Arg
 20 25 30
 Pro Gly Thr Ile Lys His Gly Ser Ala Leu Asp Val Leu Leu Ser Met
 35 40 45
 Gly Phe Pro Arg Ala Arg Ala Gln Lys Ala Leu Ala Ser Thr Gly Gly
 50 55 60
 Arg Ser Val Gln Ala Ala Cys Asp Trp Leu Phe Ser His Val Gly Asp
 65 70 75 80
 Pro Phe Leu Asp Asp Pro Leu Pro Arg Glu Tyr Val Leu Tyr Leu Arg
 85 90 95
 Pro Thr Gly Pro Leu Ala Gln Lys Leu Ser Asp Phe Trp Gln Gln Ser
 100 105 110
 Lys Gln Ile Cys Gly Lys Asn Lys Ala His Asn Ile Phe Pro His Ile
 115 120 125
 Thr Leu Cys Gln Phe Phe Met Cys Glu Asp Ser Lys Val Asp Ala Leu
 130 135 140
 Gly Glu Ala Leu Gln Thr Thr Val Ser Arg Trp Lys Cys Lys Phe Ser
 145 150 155 160
 Ala Pro Leu Pro Leu Glu Leu Tyr Thr Ser Ser Asn Phe Ile Gly Leu
 165 170 175
 Phe Val Lys Glu Asp Ser Ala Glu Val Leu Lys Lys Phe Ala Ala Asp
 180 185 190
 Phe Ala Ala Glu Ala Ala Ser Lys Thr Glu Val His Val Glu Pro His
 195 200 205
 Lys Lys Gln Leu His Val Thr Leu Ala Tyr His Phe Gln Ala Ser His
 210 215 220
 Leu Pro Thr Leu Glu Lys Leu Ala Gln Asn Ile Asp Val Lys Leu Gly
 225 230 235 240

Cys Asp Trp Val Ala Thr Ile Phe Ser Arg Asp Ile Arg Phe Ala
 245 250 255

<210> 1441
 <211> 134
 <212> Amino acid
 <213> Homo sapiens

<400> 1441
 Gln Thr Arg Pro Ala Ser Pro Arg Thr Ala Arg Glu Ser Val Leu Gly
 1 5 10 15
 Val Ser Gln Asn Met Ser Phe Asn Leu Gln Ser Ser Lys Lys Leu Phe
 20 25 30
 Ile Phe Leu Gly Lys Ser Leu Phe Ser Leu Leu Glu Ala Met Ile Phe
 35 40 45
 Ala Leu Leu Pro Lys Pro Arg Lys Asn Val Ala Gly Glu Ile Val Leu
 50 55 60
 Ile Thr Gly Ala Gly Ser Gly Leu Gly Arg Leu Leu Ala Leu Gln Phe
 65 70 75 80
 Ala Arg Leu Gly Ser Val Leu Val Leu Trp Asp Ile Asn Lys Glu Gly
 85 90 95
 Asn Glu Glu Thr Cys Lys Met Ala Arg Glu Ala Gly Ala Thr Arg Val
 100 105 110
 His Ala Tyr Thr Cys Asp Cys Ser Gln Lys Glu Gly Val Tyr Arg Val
 115 120 125
 Ala Asp Gln Val Lys Lys
 130 134

<210> 1442
 <211> 155
 <212> Amino acid
 <213> Homo sapiens

<400> 1442
 Met Val Ala Arg Lys Gly Gln Lys Ser Pro Arg Phe Arg Arg Val Thr
 1 5 10 15
 Cys Phe Leu Arg Leu Gly Arg Ser Thr Leu Leu Glu Leu Glu Pro Ala
 20 25 30
 Gly Arg Pro Cys Ser Gly Arg Thr Arg His Arg Ala Leu His Arg Arg
 35 40 45
 Leu Val Ala Cys Val Thr Val Ser Ser Arg Arg His Arg Lys Glu Ala
 50 55 60
 Gly Arg Gly Arg Ala Glu Ser Phe Ile Ala Val Gly Met Ala Ala Pro
 65 70 75 80
 Ser Met Lys Glu Arg Gln Val Cys Trp Gly Ala Arg Asp Glu Tyr Trp
 85 90 95
 Lys Cys Leu Asp Glu Asn Leu Glu Asp Ala Ser Gln Cys Lys Lys Leu
 100 105 110
 Arg Ser Ser Phe Glu Ser Ser Cys Pro Gln Gln Trp Ile Lys Tyr Phe
 115 120 125
 Asp Lys Arg Arg Asp Tyr Leu Lys Phe Lys Glu Lys Phe Glu Ala Gly
 130 135 140
 Gln Phe Glu Pro Ser Glu Thr Thr Ala Lys Ser
 145 150 155

<210> 1443
 <211> 157
 <212>Amino acid
 <213> Homo sapiens

<400> 1443
 Pro Ala Pro Ala Ala Arg Ser Arg Glu Leu Leu Lys Glu Leu Arg Asn
 1 5 10 15
 Gly Gln Asp Met Asp Thr Val Val Phe Glu Asp Val Val Val Asp Phe
 20 25 30
 Thr Leu Glu Glu Trp Ala Leu Leu Asn Pro Ala Gln Arg Lys Leu Tyr
 35 40 45
 Arg Asp Val Met Leu Glu Thr Phe Lys His Leu Ala Ser Val Asp Asn
 50 55 60
 Glu Ala Gln Leu Lys Ala Ser Gly Ser Ile Ser Gln Gln Asp Thr Ser
 65 70 75 80
 Gly Glu Lys Leu Ser Leu Lys Gln Lys Ile Glu Lys Phe Thr Arg Lys
 85 90 95
 Asn Ile Trp Ala Ser Leu Leu Gly Lys Asn Trp Glu Glu His Ser Val
 100 105 110
 Lys Asp Lys His Asn Thr Lys Glu Arg His Leu Ser Arg Asn Pro Arg
 115 120 125
 Val Glu Arg Pro Cys Lys Ser Ser Lys Gly Asn Lys Arg Gly Arg Thr
 130 135 140
 Phe Arg Lys Thr Arg Asn Cys Asn Arg His Leu Arg Arg
 145 150 155 157

<210> 1444
 <211> 53
 <212>Amino acid
 <213> Homo sapiens

<400> 1444
 Cys Val Cys Gly Phe Phe Val Cys Phe Glu Thr Lys Ser Cys Phe Val
 1 5 10 15
 Ala Gln Ala Gly Val Gln Trp His Asn Leu Ser Ser Leu Gln Ala Leu
 20 25 30
 Pro Pro Gly Phe Lys Gln Phe Ser Cys Leu Ser Leu Leu Ser Ser Trp
 35 40 45
 His Tyr Arg Arg Val
 50 53

<210> 1445
 <211> 106
 <212>Amino acid
 <213> Homo sapiens

<400> 1445

```

Gly Thr Arg Leu Arg Arg Arg Arg Glu Ala Val Trp Phe Glu Val Val
 1          5          10          15
Asn Met Asp Phe Ser Arg Leu His Met Tyr Ser Pro Pro Gln Cys Val
          20          25          30
Pro Glu Asn Thr Gly Tyr Thr Tyr Ala Leu Ser Ser Ser Tyr Ser Ser
          35          40          45
Asp Ala Leu Asp Phe Glu Thr Glu His Lys Leu Asp Pro Val Phe Asp
          50          55          60
Ser Pro Arg Met Ser Arg Arg Ser Leu Arg Leu Ala Thr Thr Ala Cys
          65          70          75          80
Thr Leu Gly Asp Gly Glu Ala Val Gly Ala Asp Ser Gly Thr Ser Ser
          85          90          95
Ala Val Ser Leu Lys Asn Arg Ala Ala Arg
          100          105 106

```

<210> 1446

<211> 95

<212>Amino acid

<213> Homo sapiens

<400> 1446

```

Asp Thr Met Gln Ala Val Val Pro Leu Asn Lys Met Thr Ala Ile Ser
 1          5          10          15
Pro Glu Pro Gln Thr Leu Ala Ser Thr Glu Gln Asn Glu Val Pro Arg
          20          25          30
Val Val Thr Ser Gly Glu Gln Glu Ala Ile Leu Arg Gly Asn Ala Ala
          35          40          45
Asp Ala Glu Ser Phe Arg Gln Arg Phe Arg Trp Phe Cys Tyr Ser Glu
          50          55          60
Val Ala Gly Pro Arg Lys Ala Leu Ser Gln Leu Trp Glu Leu Cys Asn
          65          70          75          80
Gln Trp Leu Arg Pro Asp Ile His Thr Lys Glu Gln Ile Leu Glu
          85          90          95

```

<210> 1447

<211> 127

<212>Amino acid

<213> Homo sapiens

<400> 1447

```

Pro Ile Cys Leu Phe Ser Arg Pro Thr Leu Arg Pro Ser Arg Ser Lys
 1          5          10          15
Val Ser Leu Ile Glu Gly Arg Gly Ala Asn Met Ala Ala Arg Trp Arg
          20          25          30
Phe Trp Cys Val Ser Val Thr Met Val Val Ala Leu Leu Ile Val Cys
          35          40          45
Asp Val Pro Ser Ala Ser Ala Gln Arg Lys Lys Glu Met Val Leu Ser
          50          55          60
Glu Lys Val Ser Gln Leu Met Glu Trp Thr Asn Lys Arg Pro Val Ile
          65          70          75          80
Arg Met Asn Gly Asp Lys Phe Arg Arg Leu Val Lys Ala Pro Pro Arg
          85          90          95
Asn Tyr Ser Val Ile Val Met Phe Thr Ala Leu Gln Leu His Arg Gln
          100          105          110

```

Cys Val Val Cys Lys Tyr Glu Leu Gln Leu Arg Phe Lys Ile Lys
 115 120 125 127

<210> 1448
 <211> 143
 <212>Amino acid
 <213> Homo sapiens

<400> 1448
 Gln Met Arg Val Lys Asp Pro Thr Lys Ala Leu Pro Glu Lys Ala Lys
 1 5 10 15
 Arg Ser Lys Arg Pro Thr Val Pro His Asp Glu Asp Ser Ser Asp Asp
 20 25 30
 Ile Ala Val Gly Leu Thr Cys Gln His Val Ser His Ala Ile Ser Val
 35 40 45
 Asn His Val Lys Arg Ala Ile Ala Glu Asn Leu Trp Ser Val Cys Ser
 50 55 60
 Glu Cys Leu Lys Glu Arg Arg Phe Tyr Asp Gly Gln Leu Val Leu Thr
 65 70 75 80
 Ser Asp Ile Trp Leu Cys Leu Lys Cys Gly Phe Gln Gly Cys Gly Lys
 85 90 95
 Asn Ser Glu Ser Gln His Ser Leu Lys His Phe Lys Ser Ser Arg Thr
 100 105 110
 Glu Pro His Cys Ile Ile Ile Asn Leu Ser Thr Trp Ile Ile Trp Trp
 115 120 125
 Tyr Glu Trp Asp Glu Lys Ile Phe Thr Pro Leu Asn Lys Lys Gly
 130 135 140 143

<210> 1449
 <211> 121
 <212>Amino acid
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(121)
 <223> X = any amino acid or stop code

<400> 1449
 Ala Lys Glu Arg Gly Glu Glu Arg Gln Gly Glu Gly Gly Gly Trp Leu
 1 5 10 15
 Ser Gly Ser Arg Trp Pro Leu Val Arg Ser Ala Phe Val Pro Ala Pro
 20 25 30
 Ser Ser Leu Ile Leu Ser Met Cys Leu Ser Pro Gly Ile Pro Glu Ala
 35 40 45
 Ala Pro Asp Ser Pro Leu Thr Ala Ser Ala Pro Thr Pro Xaa Val Met
 50 55 60
 Leu Leu Gly Asp Thr Gly Val Gly Lys Thr Cys Phe Leu Ile Gln Phe
 65 70 75 80
 Lys Asp Gly Ala Phe Leu Ser Gly Thr Phe Ile Ala Thr Val Gly Ile
 85 90 95
 Asp Phe Arg Val Arg Trp Leu Gln Ala Leu Ala Ser Ser Arg Glu Pro
 100 105 110
 Gly Leu Trp Leu Arg His Gly Gly Val

115

120 121

<210> 1450
 <211> 76
 <212>Amino acid
 <213> Homo sapiens

<400> 1450
 Phe Tyr Pro Arg Ser Ser Ala Asp Leu Pro Phe Gln Thr Thr Arg Cys
 1 5 10 15
 Glu Phe Gln Thr Ser Val Met Glu Leu Ala His Ser Leu Leu Leu Asn
 20 25 30
 Glu Glu Ala Leu Ala Gln Ile Thr Glu Ala Lys Arg Pro Val Phe Ile
 35 40 45
 Phe Glu Trp Leu Arg Phe Leu Asp Lys Val Leu Val Ala Ala Asn Lys
 50 55 60
 Val Trp Tyr Cys Ser Phe Phe Pro Val Ala Leu Thr
 65 70 75 76

<210> 1451
 <211> 95
 <212>Amino acid
 <213> Homo sapiens

<400> 1451
 Met Asn Met Lys Gln Lys Ser Val Tyr Gln Gln Thr Lys Ala Leu Leu
 1 5 10 15
 Cys Lys Asn Phe Leu Lys Lys Trp Arg Met Lys Arg Glu Ser Leu Leu
 20 25 30
 Glu Trp Gly Leu Ser Ile Leu Leu Gly Leu Cys Ile Ala Leu Phe Ser
 35 40 45
 Ser Ser Met Arg Asn Val Gln Phe Pro Gly Met Ala Pro Gln Asn Leu
 50 55 60
 Gly Arg Val Asp Lys Phe Asn Ser Ser Ser Leu Met Val Val Tyr Thr
 65 70 75 80
 Pro Ile Ser Asn Leu Thr Gln Gln Ile Met Asn Lys Thr Ala Leu
 85 90 95

<210> 1452
 <211> 174
 <212>Amino acid
 <213> Homo sapiens

<400> 1452
 Ser Pro Gln Gly Asn Gly Cys Pro Asp Val Thr Gly Asp Ser Val Ile
 1 5 10 15
 Arg Val Pro Leu Thr Leu Leu Val His Asn Leu Ala Gly Leu Thr Gly
 20 25 30
 Leu Leu His His Cys Leu Ser Gly Pro Leu Pro Ala Pro Ser Pro Pro

```

      35      40      45
Pro Ala Met Ser Ser Ser Arg Lys Asp His Leu Gly Ala Ser Ser Ser
  50      55      60
Glu Pro Leu Pro Val Ile Ile Val Gly Asn Gly Pro Ser Gly Ile Cys
  65      70      75      80
Leu Ser Tyr Leu Leu Ser Gly Tyr Thr Pro Tyr Thr Lys Pro Asp Ala
      85      90      95
Ile His Pro His Pro Leu Leu Gln Arg Lys Leu Thr Glu Ala Pro Gly
      100      105      110
Val Ser Ile Leu Asp Gln Asp Leu Asp Tyr Leu Ser Glu Gly Leu Glu
      115      120      125
Gly Arg Ser Gln Ser Pro Val Ala Leu Leu Phe Asp Ala Leu Leu Arg
      130      135      140
Pro Asp Thr Asp Phe Gly Gly Asn Met Lys Ser Val Leu Thr Trp Lys
      145      150      155      160
His Arg Lys Glu His Ala Ile Pro His Val Val Leu Gly Arg
      165      170      174

```

<210> 1453
 <211> 518
 <212> Amino acid
 <213> Homo sapiens

```

      <400> 1453
Asn Arg Arg Thr Arg Ala Gln Arg Cys Gln Arg Gly Arg Ser Cys Gly
  1      5      10      15
Ala Arg Glu Glu Glu Val Glu Pro Gly Thr Ala Arg Pro Pro Ala
      20      25      30
Ala Ser Ala Met Asp Ala Ser Leu Glu Lys Ile Ala Asp Pro Thr Leu
      35      40      45
Ala Glu Met Gly Lys Asn Leu Lys Glu Ala Val Lys Met Leu Glu Asp
      50      55      60
Ser Gln Arg Arg Thr Glu Glu Asn Gly Lys Lys Leu Ile Ser Gly
      65      70      75      80
Asp Ile Pro Gly Pro Leu Gln Gly Ser Gly Gln Asp Met Val Ser Ile
      85      90      95
Leu Gln Leu Val Gln Asn Leu Met His Gly Asp Glu Asp Glu Glu Pro
      100      105      110
Gln Ser Pro Arg Ile Gln Asn Ile Gly Glu Gln Gly His Met Ala Leu
      115      120      125
Leu Gly His Ser Leu Gly Ala Tyr Ile Ser Thr Leu Asp Lys Glu Lys
      130      135      140
Leu Arg Lys Leu Thr Thr Arg Ile Leu Ser Asp Thr Thr Leu Trp Leu
      145      150      155      160
Cys Arg Ile Phe Arg Tyr Glu Asn Gly Cys Ala Tyr Phe His Glu Glu
      165      170      175
Glu Arg Glu Gly Leu Ala Lys Ile Cys Arg Leu Ala Ile His Ser Arg
      180      185      190
Tyr Glu Asp Phe Val Val Asp Gly Phe Asn Val Leu Tyr Asn Lys Lys
      195      200      205
Pro Val Ile Tyr Leu Ser Ala Ala Ala Arg Pro Gly Leu Gly Gln Tyr
      210      215      220
Leu Cys Asn Gln Leu Gly Leu Pro Phe Pro Cys Leu Cys Arg Val Pro
      225      230      235      240
Cys Asn Thr Val Phe Gly Ser Gln His Gln Met Asp Val Ala Phe Leu
      245      250      255
Glu Lys Leu Ile Lys Asp Asp Ile Glu Arg Gly Arg Leu Pro Leu Leu
      260      265      270
Leu Val Ala Asn Ala Gly Thr Ala Ala Val Gly His Thr Asp Lys Ile

```

```

      275      280      285
Gly Arg Leu Lys Glu Leu Cys Glu Gln Tyr Gly Ile Trp Leu His Val
 290      295      300
Glu Gly Val Asn Leu Ala Thr Leu Ala Leu Gly Tyr Val Ser Ser Ser
 305      310      315      320
Val Leu Ala Ala Ala Lys Cys Asp Ser Met Thr Met Thr Pro Gly Pro
      325      330      335
Trp Leu Gly Leu Pro Ala Val Pro Ala Val Thr Leu Tyr Lys His Asp
      340      345      350
Asp Pro Ala Leu Thr Leu Val Ala Gly Leu Thr Ser Asn Lys Pro Thr
      355      360      365
Asp Lys Leu Arg Ala Leu Pro Leu Trp Leu Ser Leu Gln Tyr Leu Gly
 370      375      380
Leu Asp Gly Phe Val Glu Arg Ile Lys His Ala Cys Gln Leu Ser Gln
 385      390      395      400
Arg Leu Gln Glu Ser Leu Lys Lys Val Asn Tyr Ile Lys Ile Leu Val
      405      410      415
Glu Asp Glu Leu Ser Ser Pro Val Val Phe Arg Phe Phe Gln Glu
      420      425      430
Leu Pro Gly Ser Asp Pro Val Phe Lys Ala Val Pro Val Pro Asn Met
      435      440      445
Thr Pro Ser Gly Val Gly Arg Glu Arg His Ser Cys Asp Ala Leu Asn
 450      455      460
Arg Trp Leu Gly Glu Gln Leu Lys Gln Leu Val Pro Ala Ser Gly Leu
 465      470      475      480
Thr Val Met Asp Leu Glu Ala Glu Gly Thr Cys Leu Arg Phe Ser Pro
      485      490      495
Leu Met Thr Ala Ala Gly Lys Pro Gly Leu Val Asp Ile Pro Cys Phe
      500      505      510
Cys Ser Gly Ala Ala Gly
      515      518

```

<210> 1454

<211> 185

<212> Amino acid

<213> Homo sapiens

<400> 1454

```

Leu Cys Ile Met Asp Thr Lys Glu Glu Lys Lys Glu Arg Lys Gln Ser
 1      5      10      15
Tyr Phe Ala Arg Leu Lys Lys Lys Lys Gln Ala Lys Gln Asn Ala Glu
      20      25      30
Thr Ala Ser Ala Val Ala Thr Arg Thr His Thr Gly Lys Glu Asp Asn
      35      40      45
Asn Thr Val Val Leu Glu Pro Asp Lys Cys Asn Ile Ala Val Glu Glu
 50      55      60
Glu Tyr Met Thr Asp Glu Lys Lys Lys Arg Lys Ser Asn Gln Leu Lys
 65      70      75      80
Glu Ile Arg Arg Thr Glu Leu Lys Arg Tyr Tyr Ser Ile Asp Asp Asn
      85      90      95
Gln Asn Lys Thr His Asp Lys Lys Glu Lys Lys Met Val Val Gln Lys
      100      105      110
Pro His Gly Thr Met Glu Tyr Thr Ala Gly Asn Gln Asp Thr Leu Asn
      115      120      125
Ser Ile Ala Leu Lys Phe Asn Ile Thr Pro Asn Lys Leu Val Glu Leu
      130      135      140
Asn Lys Leu Phe Thr His Thr Ile Val Pro Gly Gln Val Leu Phe Val
 145      150      155      160
Pro Asp Ala Asn Ser Pro Ser Ser Thr Leu Arg Leu Ser Ser Ser Ser

```

Pro Gly Ala Thr Val Ser Pro Ser Ser
 165 170 175
 180 185

<210> 1455
 <211> 206
 <212> Amino acid
 <213> Homo sapiens

<400> 1455
 Ser Ala Gly Gly Asp Ser Cys Arg Ala Val Pro Met Leu Arg Phe Pro
 1 5 10 15
 Thr Cys Phe Pro Ser Phe Arg Val Val Gly Glu Lys Gln Leu Pro Gln
 20 25 30
 Glu Ile Ile Phe Leu Val Trp Ser Pro Lys Arg Asp Leu Ile Ala Leu
 35 40 45
 Ala Asn Thr Ala Gly Glu Val Leu Leu His Arg Leu Ala Ser Phe His
 50 55 60
 Arg Val Trp Ser Phe Pro Asn Glu Asn Thr Gly Lys Glu Val Thr
 65 70 75 80
 Cys Leu Ala Trp Arg Pro Asp Gly Lys Leu Leu Ala Phe Ala Leu Ala
 85 90 95
 Asp Thr Lys Lys Ile Val Leu Cys Asp Val Glu Lys Pro Glu Ser Leu
 100 105 110
 His Ser Phe Ser Val Glu Ala Pro Val Ser Cys Met His Trp Met Glu
 115 120 125
 Val Thr Val Glu Ser Ser Val Leu Thr Ser Phe Tyr Asn Ala Glu Asp
 130 135 140
 Glu Ser Asn Leu Leu Leu Pro Lys Leu Pro Thr Leu Pro Lys Asn Tyr
 145 150 155 160
 Ser Asn Thr Ser Lys Ile Phe Ser Glu Glu Asn Ser Asp Glu Ile Ile
 165 170 175
 Lys Leu Leu Gly Asp Val Arg Leu Asn Ile Leu Val Leu Gly Gly Ser
 180 185 190
 Ser Gly Phe Ile Glu Leu Tyr Ala Tyr Gly Met Phe Lys Ile
 195 200 205 206

<210> 1456
 <211> 100
 <212> Amino acid
 <213> Homo sapiens

<400> 1456
 Pro Arg Asp Pro Val Thr Asp Arg Ala Arg Ala Met Pro Arg Arg Gly
 1 5 10 15
 Leu Val Ala Gly Pro Asp Leu Glu Tyr Phe Gln Arg His Tyr Phe Thr
 20 25 30
 Pro Ala Glu Val Ala Gln His Asn Arg Pro Glu Asp Leu Trp Val Ser
 35 40 45
 Tyr Leu Gly Arg Val Tyr Asp Leu Thr Ser Leu Ala Gln Glu Tyr Lys
 50 55 60
 Gly Asn Leu Leu Leu Lys Pro Ile Val Glu Val Ala Gly Gln Asp Ile
 65 70 75 80
 Ser His Trp Phe Asp Pro Lys Thr Arg Asp Val Ser Tyr Ala Gly Thr

Trp Asp Cys Gly
100

85

90

95

<210> 1457
<211> 159
<212> Amino acid
<213> Homo sapiens

<400> 1457
Arg Ile Pro Gly Arg Arg Phe Arg Ala Ala Phe Val Leu Gly Ser Ala
1 5 10 15
Asn Val Ala Ser Ser Val Arg Leu Arg Cys Ser Phe Pro Leu Ser Leu
20 25 30
Gly Gly Pro Ser Gly Pro Ala Ala Ala Ser Val Ala Leu Gly Pro Ala
35 40 45
Gly Pro Gly Arg Ser Leu Gly Arg Thr Pro Asp Thr Gly Asp Trp Glu
50 55 60
Met Asp Ser Val Ser Phe Glu Asp Val Ala Val Ala Phe Thr Gln Glu
65 70 75 80
Glu Trp Ala Leu Leu Asp Pro Ser Gln Lys Asn Leu Tyr Arg Asp Val
85 90 95
Met Gln Glu Ile Phe Arg Asn Leu Ala Ser Val Gly Asn Lys Ser Glu
100 105 110
Asp Gln Asn Ile Gln Asp Asp Phe Lys Asn Pro Gly Arg Asn Leu Ser
115 120 125
Ser His Val Val Glu Arg Leu Phe Glu Ile Lys Glu Gly Ser Gln Tyr
130 135 140
Gly Glu Thr Phe Ser Gln Asp Ser Asn Leu Asn Leu Asn Lys Ile
145 150 155 159

<210> 1458
<211> 154
<212> Amino acid
<213> Homo sapiens

<400> 1458
Ser Leu Ser Leu Ser Val Ser Pro Phe Leu Arg Leu Ser Leu Gly Arg
1 5 10 15
Val Gly Gly Met Ala Glu Glu Met Glu Ser Ser Leu Glu Ala Ser Phe
20 25 30
Ser Ser Ser Gly Ala Val Ser Gly Ala Ser Gly Phe Leu Pro Pro Ala
35 40 45
Arg Ser Arg Ile Phe Lys Ile Ile Val Ile Gly Asp Ser Asn Val Gly
50 55 60
Lys Thr Cys Leu Thr Tyr Arg Phe Cys Ala Gly Arg Phe Pro Asp Arg
65 70 75 80
Thr Glu Ala Thr Ile Gly Val Asp Phe Arg Glu Arg Ala Val Glu Ile
85 90 95
Asp Gly Glu Arg Ile Lys Ile Gln Leu Trp Asp Thr Ala Gly Gln Glu
100 105 110
Arg Phe Arg Lys Ser Met Val Gln His Tyr Tyr Arg Asn Val His Ala
115 120 125
Val Val Phe Val Tyr Asp Met Thr Asn Met Ala Ser Phe His Ser Leu

130 135 140
 Pro Ser Trp Ile Glu Glu Cys Lys Gln His
 145 150 154

<210> 1459
 <211> 136
 <212> Amino acid
 <213> Homo sapiens

<400> 1459
 Arg Arg Pro Ser Pro Gly Ser Ile Val Ile Met Ala Ala Glu Ser Asp
 1 5 10 15
 Val Leu His Phe Gln Phe Glu Gln Gln Gly Asp Val Val Leu Gln Lys
 20 25 30
 Met Asn Leu Leu Arg Gln Gln Asn Leu Phe Cys Asp Val Ser Ile Tyr
 35 40 45
 Ile Asn Asp Thr Glu Phe Gln Gly His Lys Val Ile Leu Ala Ala Cys
 50 55 60
 Ser Thr Phe Met Arg Asp Gln Phe Leu Leu Thr Gln Ser Lys His Val
 65 70 75 80
 Arg Ile Thr Ile Leu Gln Ser Ala Glu Val Gly Arg Lys Leu Leu Leu
 85 90 95
 Ser Cys Tyr Thr Gly Ala Leu Glu Val Lys Arg Lys Glu Leu Leu Lys
 100 105 110
 Tyr Leu Thr Ala Ala Ser Tyr Leu Gln Met Val His Ile Ala Glu Lys
 115 120 125
 Arg Thr Glu Ala Phe Val Lys Phe
 130 135 136

<210> 1460
 <211> 219
 <212> Amino acid
 <213> Homo sapiens

<400> 1460
 Ala Glu Gly Leu Gln Ser Ala Ala Gly Ile Arg Ile Asp Thr Lys Ala
 1 5 10 15
 Gly Pro Pro Glu Met Leu Lys Pro Leu Trp Lys Ala Ala Val Ala Pro
 20 25 30
 Thr Trp Pro Cys Ser Met Pro Pro Arg Arg Pro Trp Asp Arg Gln Ala
 35 40 45
 Gly Thr Leu Gln Val Leu Gly Ala Leu Ala Val Leu Trp Leu Gly Ser
 50 55 60
 Val Ala Leu Ile Cys Leu Leu Trp Gln Val Pro Arg Pro Pro Thr Trp
 65 70 75 80
 Gly Gln Val Gln Pro Lys Asp Val Pro Arg Ser Trp Glu His Gly Ser
 85 90 95
 Ser Pro Ala Trp Glu Pro Leu Glu Ala Glu Ala Arg Gln Gln Arg Asp
 100 105 110
 Ser Cys Gln Leu Val Leu Val Glu Ser Ile Pro Gln Asp Leu Pro Ser
 115 120 125
 Ala Ala Gly Ser Pro Ser Ala Gln Pro Leu Gly Gln Ala Trp Leu Gln
 130 135 140
 Leu Leu Asp Thr Ala Gln Glu Ser Val His Val Ala Ser Tyr Tyr Trp

```

145          150          155          160
Ser Leu Thr Gly Pro Asp Ile Gly Val Asn Asp Ser Ser Ser Gln Leu
          165          170          175
Gly Glu Ala Leu Leu Gln Lys Leu Gln Gln Leu Leu Gly Arg Asn Ile
          180          185          190
Ser Leu Ala Val Ala Thr Ser Ser Pro Thr Leu Ala Arg Thr Ser Thr
          195          200          205
Asp Leu Gln Val Leu Ala Ala Arg Gly Ala His
          210          215          219

```

```

<210> 1461
<211> 80
<212>Amino acid
<213> Homo sapiens

```

```

<400> 1461
Arg Lys Lys Lys Met Pro Leu Pro Phe Gly Leu Lys Leu Lys Arg Thr
 1          5          10          15
Arg Arg Tyr Thr Val Ser Ser Lys Ser Cys Leu Val Ala Arg Ile Gln
          20          25          30
Leu Leu Asn Asn Glu Phe Val Glu Phe Thr Leu Ser Val Glu Ser Thr
          35          40          45
Gly Gln Glu Ser Leu Glu Ala Val Ala Gln Arg Leu Glu Leu Arg Glu
          50          55          60
Val Thr Tyr Phe Ser Leu Trp Tyr Tyr Asn Lys Gln Asn Gln Arg Arg
          65          70          75          80

```

```

<210> 1462
<211> 176
<212>Amino acid
<213> Homo sapiens

```

```

<400> 1462
Leu Gln Pro Leu Ser Ser Trp Glu Ser Ala Ser Glu Val Thr Arg Ser
 1          5          10          15
Pro Val Ser Pro Glu Asp Val Lys Gln Ala Thr Ser Asn Phe Glu Asn
          20          25          30
Leu Gln Lys Gln Leu Ala Arg Lys Met Lys Leu Pro Ile Phe Ile Ala
          35          40          45
Asp Ala Phe Thr Ala Arg Ala Phe Arg Gly Asn Pro Ala Ala Val Cys
          50          55          60
Leu Leu Glu Asn Glu Leu Asp Glu Asp Met His Gln Lys Ile Ala Arg
          65          70          75          80
Glu Met Asn Leu Ser Glu Thr Ala Phe Ile Arg Lys Leu His Pro Thr
          85          90          95
Asp Asn Phe Ala Gln Ser Ser Cys Phe Gly Leu Arg Trp Phe Thr Pro
          100          105          110
Ala Ser Glu Val Pro Leu Cys Gly His Ala Thr Leu Ala Ser Ala Ala
          115          120          125
Val Leu Phe His Lys Ile Lys Asn Met Asn Ser Thr Leu Thr Phe Val
          130          135          140
Thr Leu Ser Gly Glu Leu Arg Ala Arg Arg Ala Glu Asp Gly Ile Val

```

```
<210> 1463
<211> 150
<212> Amino acid
<213> Homo sapiens
```

```
<210> 1464
<211> 86
<212>Amino acid
<213> Homo sapiens
```

```
<210> 1465
<211> 286
<212>Amino acid
```

<213> Homo sapiens

<400> 1465

```

Val Val Glu Phe Leu Trp Ser Arg Arg Pro Ser Gly Ser Ser Asp Pro
 1      5      10      15
Arg Pro Arg Arg Pro Ala Ser Lys Cys Gln Met Met Glu Glu Arg Ala
      20      25      30
Asn Leu Met His Met Met Lys Leu Ser Ile Lys Val Leu Leu Gln Ser
      35      40      45
Ala Leu Ser Leu Gly Arg Ser Leu Asp Ala Asp His Ala Pro Leu Gln
      50      55      60
Gln Phe Phe Val Val Met Glu His Cys Leu Lys His Gly Leu Lys Val
      65      70      75      80
Lys Lys Ser Phe Ile Gly Gln Asn Lys Ser Phe Phe Gly Pro Leu Glu
      85      90      95
Leu Val Glu Lys Leu Cys Pro Glu Ala Ser Asp Ile Ala Thr Ser Val
      100      105      110
Arg Asn Leu Pro Glu Leu Lys Thr Ala Val Gly Arg Gly Arg Ala Trp
      115      120      125
Leu Tyr Leu Ala Leu Met Gln Lys Lys Leu Ala Asp Tyr Leu Lys Val
      130      135      140
Leu Ile Asp Asn Lys His Leu Leu Ser Glu Phe Tyr Glu Pro Glu Ala
145      150      155      160
Leu Met Met Glu Glu Glu Gly Met Val Ile Val Gly Leu Leu Val Gly
      165      170      175
Leu Asn Val Leu Asp Ala Asn Leu Cys Leu Lys Gly Glu Asp Leu Asp
      180      185      190
Ser Gln Val Gly Val Ile Asp Phe Ser Leu Tyr Leu Lys Asp Val Gln
      195      200      205
Asp Leu Asp Gly Gly Lys Glu His Glu Arg Ile Thr Asp Val Leu Asp
      210      215      220
Gln Lys Asn Tyr Val Glu Glu Leu Asn Arg His Leu Ser Cys Thr Val
225      230      235      240
Gly Asp Leu Gln Thr Lys Ile Asp Gly Leu Glu Lys Thr Asn Ser Lys
      245      250      255
Leu Gln Glu Arg Val Ser Ala Ala Thr Asp Arg Ile Cys Ser Leu Gln
      260      265      270
Glu Glu Gln Gln Gln Leu Arg Glu Gln Asn Glu Leu Ile Arg
      275      280      285 286

```

<210> 1466

<211> 127

<212>Amino acid

<213> Homo sapiens

<400> 1466

```

Gly Cys Tyr Ala Pro Ser Pro His Leu Gly Gly Ser Leu Thr Pro Arg
 1      5      10      15
Phe Phe Pro Asn Gly Val Phe His Arg Arg Leu Pro Arg Pro Arg Pro
      20      25      30
Pro Gln Pro Pro Ser Val Ser Ser Ala Pro Thr Leu Arg Pro Leu Cys
      35      40      45
Ala His Phe Ser Leu Gly Lys Leu Arg Leu Arg Val Arg Lys Ser Ala
      50      55      60
Glu Val Ala Pro Pro Arg Thr Glu Lys Gly Trp Gly Ser Ala Glu Pro

```

65					70					75				80
Arg	His	Ser	Arg	Ala	Pro	Leu	Gly	Leu	Gln	Gly	Leu	Arg	Met	Ala
				85					90					95
Ser	Ala	Gln	Val	Ser	Val	Thr	Phe	Glu	Asp	Val	Ala	Val	Thr	Phe
			100					105					110	
Gln	Glu	Glu	Trp	Gly	Gln	Leu	Asp	Ala	Ala	Gln	Arg	Thr	Leu	Tyr
		115					120					125		127

<210> 1467
 <211> 146
 <212> Amino acid
 <213> Homo sapiens

<400> 1467

Phe	Arg	Gly	Ser	Leu	Ser	Ser	Pro	Ser	Ser	Leu	Arg	Gly	Arg	Arg	Leu
1				5					10					15	
Val	Thr	Gly	Gln	Thr	Ser	Pro	Arg	Gly	Thr	Trp	Cys	Leu	Tyr	Pro	Gly
			20					25						30	
Phe	Cys	Arg	Ser	Val	Ala	Cys	Ala	Met	Pro	Cys	Cys	Ser	His	Arg	Ser
		35					40					45			
Cys	Arg	Glu	Asp	Pro	Gly	Thr	Ser	Glu	Ser	Arg	Glu	Met	Asp	Pro	Val
		50				55					60				
Val	Phe	Glu	Asp	Val	Ala	Val	Asn	Phe	Thr	Gln	Glu	Glu	Trp	Thr	Leu
					70					75					80
Leu	Asp	Ile	Ser	Gln	Lys	Asn	Leu	Phe	Arg	Glu	Val	Met	Leu	Glu	Thr
				85					90					95	
Phe	Arg	Asn	Leu	Thr	Ser	Ile	Gly	Lys	Lys	Trp	Ser	Asp	Gln	Asn	Ile
			100					105					110		
Glu	Tyr	Glu	Tyr	Gln	Asn	Pro	Arg	Arg	Ser	Phe	Arg	Ser	Leu	Ile	Glu
		115					120					125			
Glu	Lys	Val	Asn	Glu	Ile	Lys	Glu	Asp	Ser	His	Cys	Gly	Glu	Thr	Phe
		130				135					140				
Thr	Gln														
145	146														

<210> 1468
 <211> 44
 <212> Amino acid
 <213> Homo sapiens

<400> 1468

Leu	Asn	Phe	Ala	Asn	Ser	Ala	Ala	Phe	Ala	Val	Thr	Met	Pro	Gln	Asn
1				5					10					15	
Glu	Tyr	Ile	Glu	Leu	His	Arg	Lys	Arg	Tyr	Gly	Phe	Arg	Leu	Asp	Tyr
			20					25					30		
His	Glu	Lys	Lys	Arg	Lys	Lys	Gln	Ser	Arg	Glu	Ala				
		35					40				44				

<210> 1469
 <211> 198
 <212> Amino acid
 <213> Homo sapiens

<400> 1469

```

Ser Gly Asp Leu Ser Pro Ala Glu Leu Met Met Leu Thr Ile Gly Asp
 1           5           10           15
Val Ile Lys Gln Leu Ile Glu Ala His Glu Gln Gly Lys Asp Ile Asp
          20           25           30
Leu Asn Lys Val Lys Thr Lys Thr Ala Ala Lys Tyr Gly Leu Ser Ala
          35           40           45
Gln Pro Arg Leu Val Asp Ile Ile Ala Ala Val Pro Pro Gln Tyr Arg
          50           55           60
Lys Val Leu Met Pro Lys Leu Lys Ala Lys Pro Ile Arg Thr Ala Ser
          65           70           75           80
Gly Ile Ala Val Val Ala Val Met Cys Lys Pro His Arg Cys Pro His
          85           90           95
Ile Ser Phe Thr Gly Asn Ile Cys Val Tyr Cys Pro Gly Gly Pro Asp
          100          105          110
Ser Asp Phe Glu Tyr Ser Thr Gln Ser Tyr Thr Gly Tyr Glu Pro Thr
          115          120          125
Ser Met Arg Ala Ile Arg Ala Arg Tyr Asp Pro Phe Leu Gln Thr Arg
          130          135          140
His Arg Ile Glu Gln Leu Lys Gln Leu Gly His Ser Val Asp Lys Val
          145          150          155          160
Glu Phe Ile Glu Met Gly Gly Thr Phe Met Ala Leu Pro Glu Glu Tyr
          165          170          175
Arg Asp Tyr Phe Ile Arg Asn Leu His Asp Ala Leu Ser Gly His Thr
          180          185          190
Ser Asn Asn Ile Tyr Glu
          195          198

```

<210> 1470

<211> 178

<212>Amino acid

<213> Homo sapiens

<400> 1470

```

Trp Glu Ser Asp Val Gly Glu Gly Leu Arg Pro Pro Pro Pro Pro Pro
 1           5           10           15
Pro Pro Gly Arg Arg Arg Thr Gln Glu Pro Arg Ala Arg Asp Ala Ala
          20           25           30
Thr Val Ile Phe Ala Cys Pro Ala Ala Leu Leu Glu Thr Leu Ile Ala
          35           40           45
Tyr Gly Ser Ser Ser Pro Ser Phe Cys Lys His Arg Ala Ala Arg Pro
          50           55           60
Leu Ile Phe Leu Leu His Arg Leu Thr Ala Glu Ala Thr Ala Arg Cys
          65           70           75           80
Pro Ile Cys Ala Leu Glu Ala Arg Asn Pro Gly Arg Trp Gly Ile Cys
          85           90           95
Ala Ser Trp Pro Gly Met Lys Thr Pro Phe Gly Lys Ala Ala Ala Gly
          100          105          110
Gln Arg Ser Arg Thr Gly Ala Gly His Gly Ser Val Ser Val Thr Met
          115          120          125
Ile Lys Arg Lys Ala Ala His Lys Lys His Arg Ser Arg Pro Thr Ser
          130          135          140
Gln Pro Arg Gly Asn Ile Val Gly Cys Ile Ile Gln His Gly Trp Lys
          145          150          155          160
Asp Gly Asp Glu Pro Leu Thr Gln Trp Lys Gly Thr Val Leu Asp Gln

```

Leu Leu 165 170 175
178

<210> 1471
<211> 253
<212>Amino acid
<213> Homo sapiens

<400> 1471
Arg Asp Leu Gly Val Ala Leu Glu Ala Phe Gln Trp Ala Arg Ala Gly
1 5 10 15
Asp Cys Gly Ser Gly Ala Gly Arg Ala Gly Gly Glu Gly Val Asp Ala
20 25 30
Gly Arg Arg Val Pro Glu Arg Gln His Arg Gly Arg Gly Gly Gly Gly
35 40 45
Glu Pro Gly Arg Arg Gln Arg Gly Gly Arg Arg Gln Arg Ser Ser Ser
50 55 60
Arg Arg Ser Gly Gly Asp Gly Gly Asp Glu Val Glu Gly Ser Gly Val
65 70 75 80
Gly Ala Gly Glu Gly Glu Thr Val Gln His Phe Pro Leu Ala Arg Pro
85 90 95
Lys Ser Leu Met Gln Lys Leu Gln Cys Ser Phe Gln Thr Ser Trp Leu
100 105 110
Lys Asp Phe Pro Trp Leu Arg Tyr Ser Lys Asp Thr Gly Leu Met Ser
115 120 125
Cys Gly Trp Cys Gln Lys Thr Pro Ala Asp Gly Gly Ser Val Asp Leu
130 135 140
Pro Pro Val Gly His Asp Glu Leu Ser Arg Gly Thr Arg Asn Tyr Lys
145 150 155 160
Lys Thr Leu Leu Leu Arg His His Val Ser Thr Glu His Lys Leu His
165 170 175
Glu Ala Asn Ala Gln Glu Ser Glu Ile Pro Ser Glu Glu Gly Tyr Cys
180 185 190
Asp Phe Asn Ser Arg Pro Asn Glu Asn Ser Tyr Cys Tyr Gln Leu Leu
195 200 205
Arg Gln Leu Asn Glu Gln Arg Lys Lys Gly Ile Leu Cys Asp Val Ser
210 215 220
Ile Val Val Ser Gly Lys Ile Phe Lys Ala His Lys Asn Ile Leu Val
225 230 235 240
Ala Gly Ser Arg Phe Phe Lys Thr Leu Tyr Cys Phe Ser
245 250 253

<210> 1472
<211> 147
<212>Amino acid
<213> Homo sapiens

<400> 1472
Ser Leu Arg Ala Ala Ala Met Ala Asp Val Thr Ala Arg Ser Leu
1 5 10 15
Gln Tyr Glu Tyr Lys Ala Asn Ser Asn Leu Val Leu Gln Ala Asp Arg
20 25 30
Ser Leu Ile Asp Arg Thr Arg Arg Asp Glu Pro Thr Gly Glu Val Leu

```

      35      40      45
Ser Leu Val Gly Lys Leu Glu Gly Thr Arg Met Gly Asp Lys Ala Gln
  50      55      60
Arg Thr Lys Pro Gln Met Gln Glu Glu Arg Arg Ala Lys Arg Arg Lys
  65      70      75      80
Arg Asp Glu Asp Arg His Asp Ile Asn Lys Met Lys Gly Tyr Thr Leu
      85      90      95
Leu Ser Glu Gly Ile Asp Glu Met Val Gly Ile Ile Tyr Lys Pro Lys
      100      105      110
Thr Lys Glu Thr Arg Glu Thr Tyr Glu Val Leu Leu Ser Phe Ile Gln
      115      120      125
Ala Ala Leu Gly Asp Gln Pro Arg Asp Ile Leu Cys Gly Ala Ala Asp
      130      135      140
Glu Val Leu
145      147

```

```

<210> 1473
<211> 139
<212>Amino acid
<213> Homo sapiens

```

```

      <400> 1473
Cys Asn Ser Ala Glu Ser Arg Met Asp Val Leu Phe Val Ala Ile Phe
  1      5      10      15
Ala Val Pro Leu Ile Leu Gly Gln Glu Tyr Glu Asp Glu Glu Arg Leu
      20      25      30
Gly Glu Asp Glu Tyr Tyr Gln Val Val Tyr Tyr Tyr Thr Val Thr Pro
      35      40      45
Ser Tyr Asp Asp Phe Ser Ala Asp Phe Thr Ile Asp Tyr Ser Ile Phe
      50      55      60
Glu Ser Glu Asp Arg Leu Asn Arg Leu Asp Lys Asp Ile Thr Glu Ala
      65      70      75      80
Ile Glu Thr Thr Ile Ser Leu Glu Thr Ala Arg Ala Asp His Pro Lys
      85      90      95
Pro Val Thr Val Lys Pro Val Thr Thr Glu Pro Gln Ser Pro Asp Leu
      100      105      110
Asn Asp Ala Val Ser Ser Leu Arg Ser Pro Ile Pro Leu Leu Leu Ser
      115      120      125
Cys Ala Phe Val Gln Val Gly Met Tyr Phe Met
      130      135      139

```

```

<210> 1474
<211> 185
<212>Amino acid
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(185)
<223> X = any amino acid or stop code

```

```

      <400> 1474
Phe Val Arg Gly Pro Gly Glu Glu Gln Ala Pro Ala Phe Arg Lys Pro
  1      5      10      15

```

Ala Pro Gly Ala Met Gly Ala Gln Val Arg Leu Pro Pro Gly Glu Pro
 20 25 30
 Cys Arg Glu Gly Tyr Val Leu Ser Leu Val Cys Pro Asn Ser Ser Gln
 35 40 45
 Ala Trp Cys Glu Ile Thr Asn Val Ser Gln Leu Leu Ala Ser Pro Val
 50 55 60
 Leu Tyr Thr Asp Leu Asn Tyr Ser Ile Asn Asn Leu Ser Ile Ser Ala
 65 70 75 80
 Asn Val Glu Asn Lys Tyr Ser Leu Tyr Val Gly Leu Val Leu Ala Val
 85 90 95
 Ser Ser Ser Ile Phe Ile Gly Ser Ser Phe Ile Leu Lys Lys Lys Gly
 100 105 110
 Leu Leu Gln Leu Ala Ser Lys Gly Phe Thr Arg Ala Gly Gln Gly Gly
 115 120 125
 His Ser Tyr Leu Lys Glu Trp Leu Trp Trp Val Gly Leu Leu Ser Ile
 130 135 140
 Leu Ser Trp Asn Ala Arg Glu Lys Val Asp Leu Xaa Asn Ile Thr Phe
 145 150 155 160
 Xaa Pro Gln Thr Ser Cys Ile Phe Phe Thr Ile Thr Ile Glu Lys Ser
 165 170 175
 Thr Phe Leu Ser Tyr Phe Pro Thr Ser
 180 185

<210> 1475

<211> 91

<212>Amino acid

<213> Homo sapiens

<400> 1475

Ala Arg Gly Ser Cys Pro Thr Arg Pro Arg Pro Ala Asn Gly Arg Met
 1 5 10 15
 Ala Glu Thr Lys Asp Ala Ala Gln Met Leu Val Thr Phe Lys Asp Val
 20 25 30
 Ala Val Thr Phe Thr Arg Glu Glu Trp Arg Gln Leu Asp Leu Ala Gln
 35 40 45
 Arg Thr Leu Tyr Arg Glu Val Met Leu Glu Thr Cys Gly Leu Leu Val
 50 55 60
 Ser Leu Gly His Arg Val Pro Lys Pro Glu Leu Val His Leu Leu Lys
 65 70 75 80
 His Gly Gln Glu Leu Trp Ile Val Lys Arg Gly
 85 90 91

<210> 1476

<211> 159

<212>Amino acid

<213> Homo sapiens

<400> 1476

Tyr Thr Met Leu Arg Gly Thr Met Thr Ala Trp Arg Gly Met Arg Pro
 1 5 10 15
 Glu Val Thr Leu Ala Cys Leu Leu Leu Ala Thr Ala Gly Cys Phe Ala
 20 25 30
 Asp Leu Asn Glu Val Pro Gln Val Thr Val Gln Pro Ala Ser Thr Val
 35 40 45

```

Gln Lys Pro Gly Gly Thr Val Ile Leu Gly Cys Val Val Glu Pro Pro
 50          55          60
Arg Met Asn Val Thr Trp Arg Leu Asn Gly Lys Glu Leu Asn Gly Ser
 65          70          75          80
Asp Asp Ala Leu Gly Val Leu Ile Thr His Gly Thr Leu Val Ile Thr
          85          90          95
Ala Leu Asn Asn His Thr Val Gly Arg Tyr Gln Cys Val Ala Arg Met
          100          105          110
Pro Ala Gly Ala Val Ala Ser Val Pro Ala Thr Val Thr Leu Ala Ser
          115          120          125
Glu Ser Ala Pro Leu Pro Pro Cys His Gly Ala Val Pro Pro His Leu
          130          135          140
Ser His Pro Glu Ala Pro Thr Ile His Ala Ala Ser Cys Tyr Ser
145          150          155          159

```

<210> 1477

<211> 139

<212>Amino acid

<213> Homo sapiens

<400> 1477

```

Trp Gly Arg Arg Arg Gln Leu Val Ser Glu Ala Ala Arg Ala Gln Gly
 1          5          10          15
Asp Pro Val Cys Ser Thr Met Ser Glu Glu Glu Ala Ala Gln Ile Pro
          20          25          30
Arg Ser Ser Val Trp Glu Gln Asp Gln Gln Asn Val Val Gln Arg Val
          35          40          45
Val Ala Leu Pro Leu Val Arg Ala Thr Cys Thr Ala Val Cys Asp Val
          50          55          60
Tyr Ser Ala Ala Lys Asp Arg His Pro Leu Leu Gly Ser Ala Cys Arg
          65          70          75          80
Leu Ala Glu Asn Cys Val Cys Gly Leu Thr Thr Arg Ala Leu Asp His
          85          90          95
Ala Gln Pro Leu Leu Glu His Leu Gln Pro Gln Leu Ala Thr Met Asn
          100          105          110
Ser Leu Ala Cys Arg Gly Leu Asp Lys Leu Glu Glu Lys Leu Pro Phe
          115          120          125
Leu Gln Gln Pro Ser Glu Thr Val Val Thr Ser
130          135          139

```

<210> 1478

<211> 331

<212>Amino acid

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(331)

<223> X = any amino acid or stop code

<400> 1478

```

Ala Lys Ala Phe Thr Met Ala Glu Ser Pro Gly Cys Cys Ser Val Trp
 1          5          10          15
Ala Arg Cys Leu His Cys Leu Tyr Ser Cys His Trp Arg Lys Cys Pro

```

917